

Legend

- Bound Brook Centerline (RM)
- Dams (Natural and Manmade)
- Pipes Crossing the Brook
- Shoreline
- Former Cornell Dublier Electronics Facility
- T1-A Sample Location ID

Panel A

Texture

- Coarse Sand
- Coarse to Fine Sand
- Coarse to Medium Sand
- Medium to Fine Sand
- Fine Sand
- Silt
- Silt with Clay
- Clay with Silt
- Cobbles
- Gravel
- Hard Bottom

New Market Pond

- Sand as interpreted by the side scan sonar
- Rock-Gravel-Sand as interpreted by the side scan sonar
- Silt as interpreted by the side scan sonar

Panel B

- | Depth to Refusal (ft.) | Depth Advanced Without Refusal* (ft.) |
|------------------------|---------------------------------------|
| 0.0 - 1.0 | 0.0 - 1.0 |
| 1.1 - 2.0 | 1.1 - 2.0 |
| 2.1 - 3.0 | 2.1 - 3.0 |
| 3.1 - 4.0 | 3.1 - 4.0 |
| 4.1 - 5.0 | 4.1 - 5.0 |
| > 5.1 | 5.1 - 6.5 |

*Probe rod not long enough to accommodate water depth and to encounter refusal.

Sources:

1) Background Data - Street Information, NJDOT, 2012; Streams, NJDEP, 2002.

2) Shoreline was adapted from a Tetra Tech, Inc. shoreline shapefile, which was adjusted to be consistent with information collected in the field, aerial imagery provided by Penoni Associates, Inc., and 2002 aerial imagery from the New Jersey Office of Information Technology (Office of GIS).

3) "Hard bottom" is a generic term that covers all types of hard material that the probe rod could not penetrate (e.g., cinderblocks, rip-rap, bedrock, rock, or hard debris). Only exposed bedrock at the surface can be visually identified and confidently classified as "weathered, fractured bedrock."

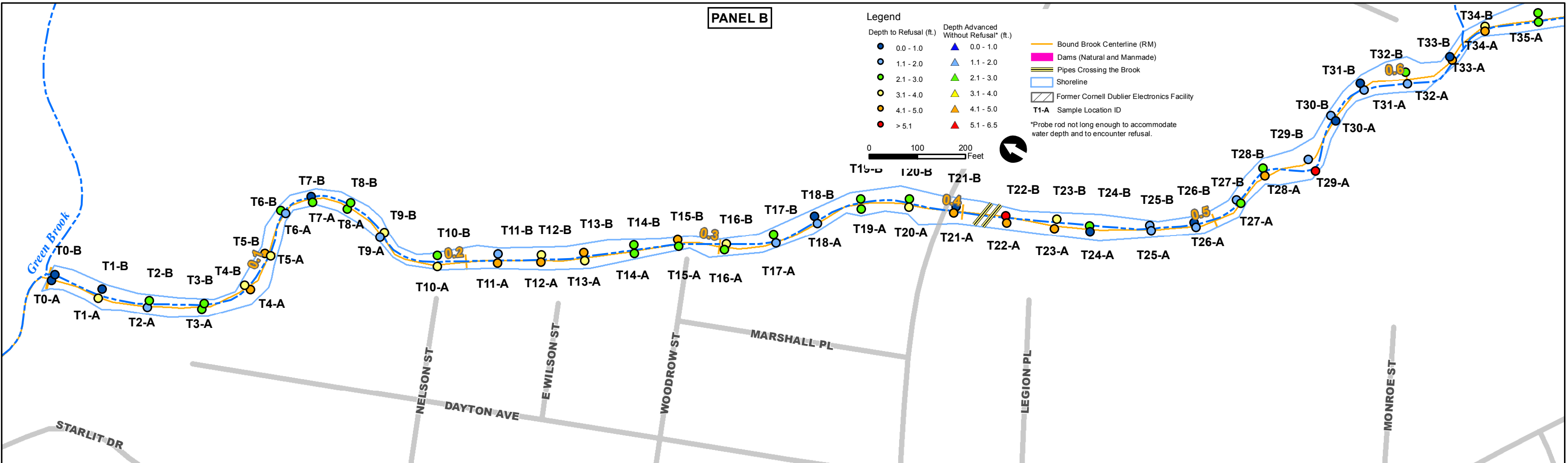
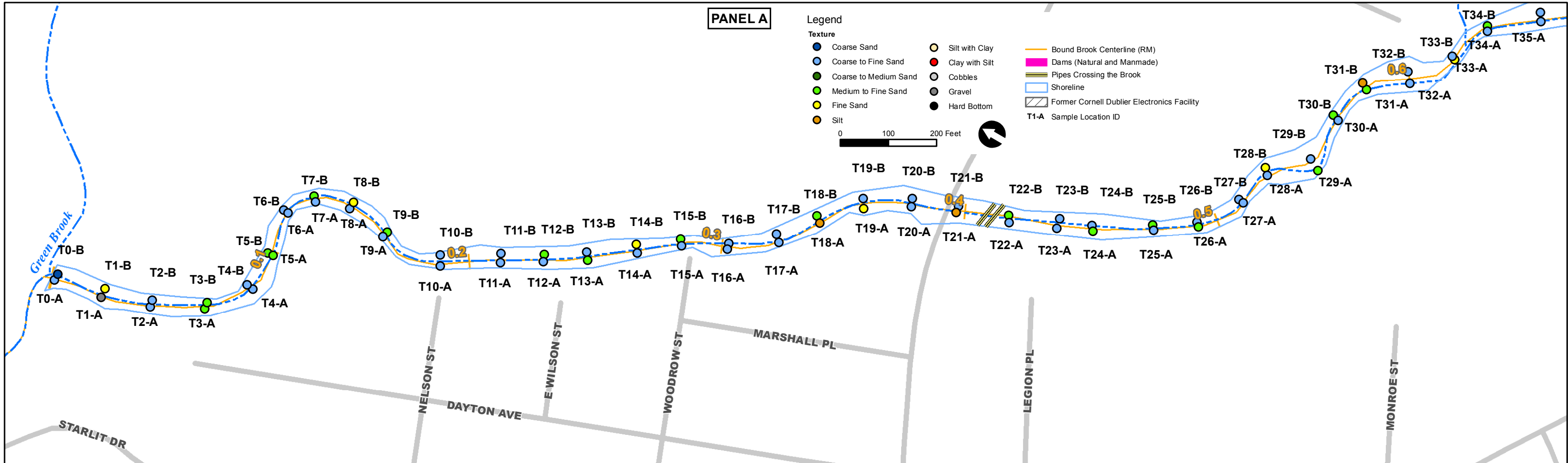


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KEY MAP
Sediment Probing Interpretation
Bound Brook OU4 RI/FS

2013
Figure 5-1
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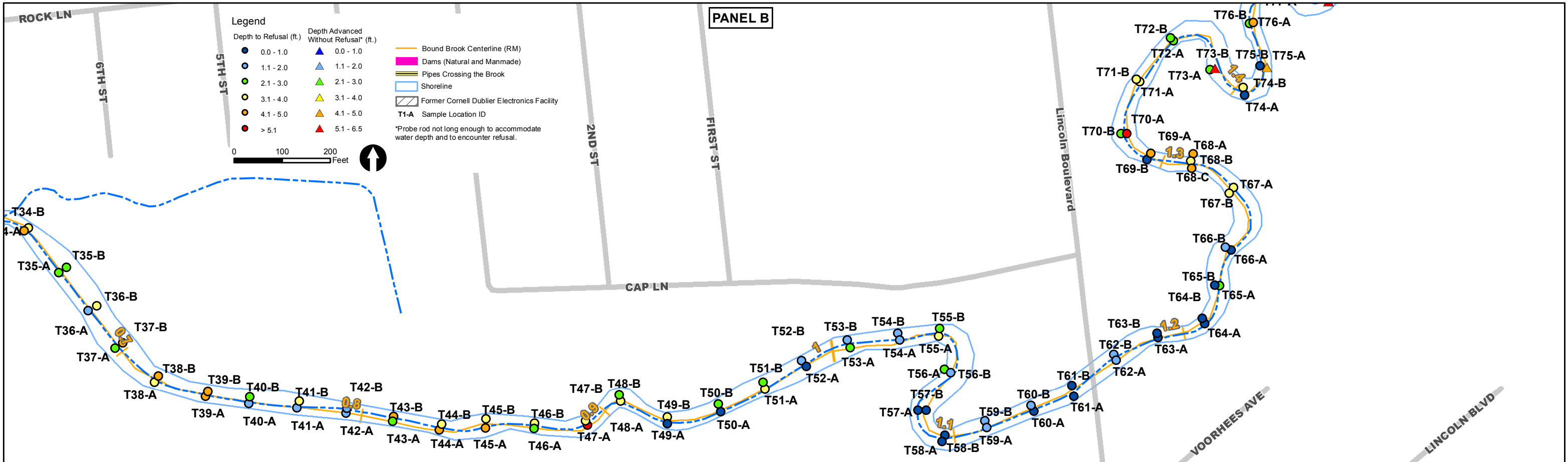
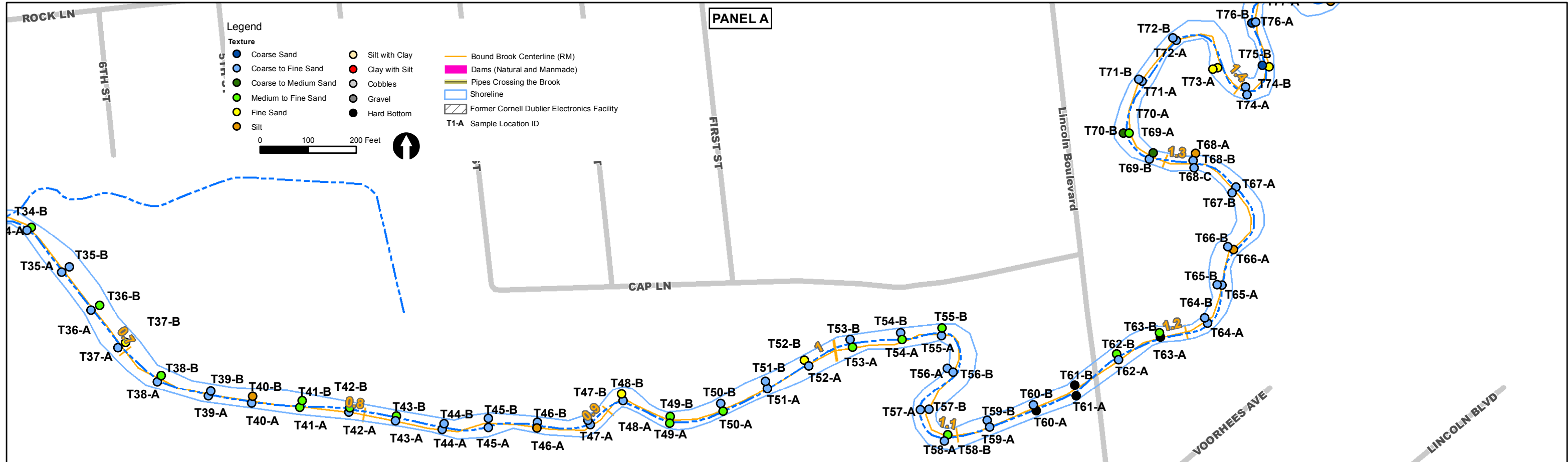
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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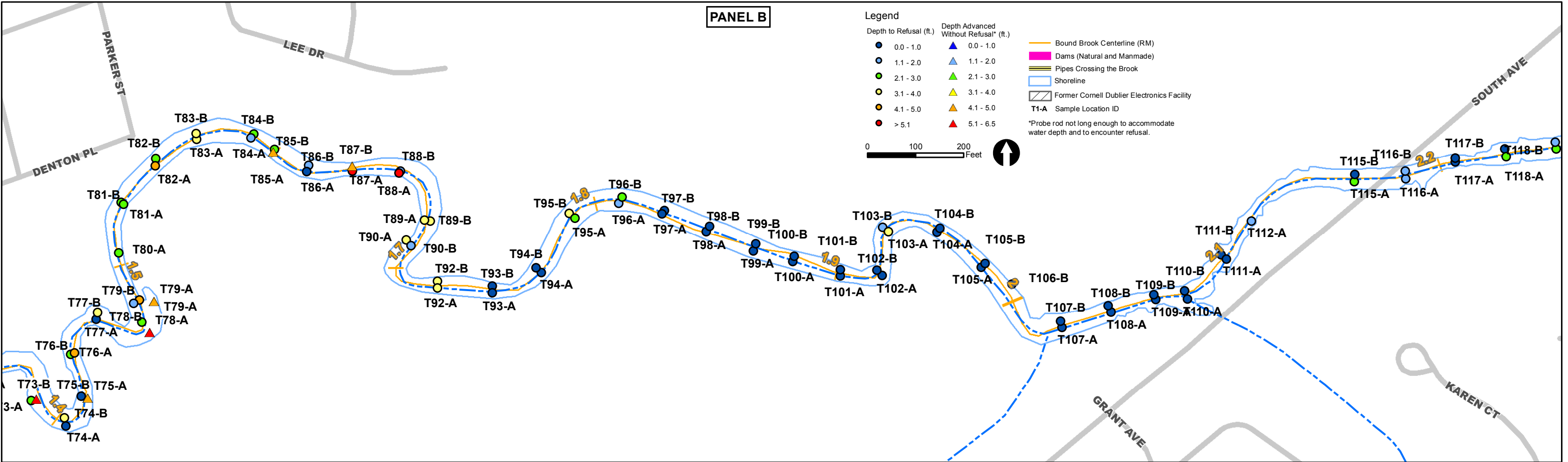
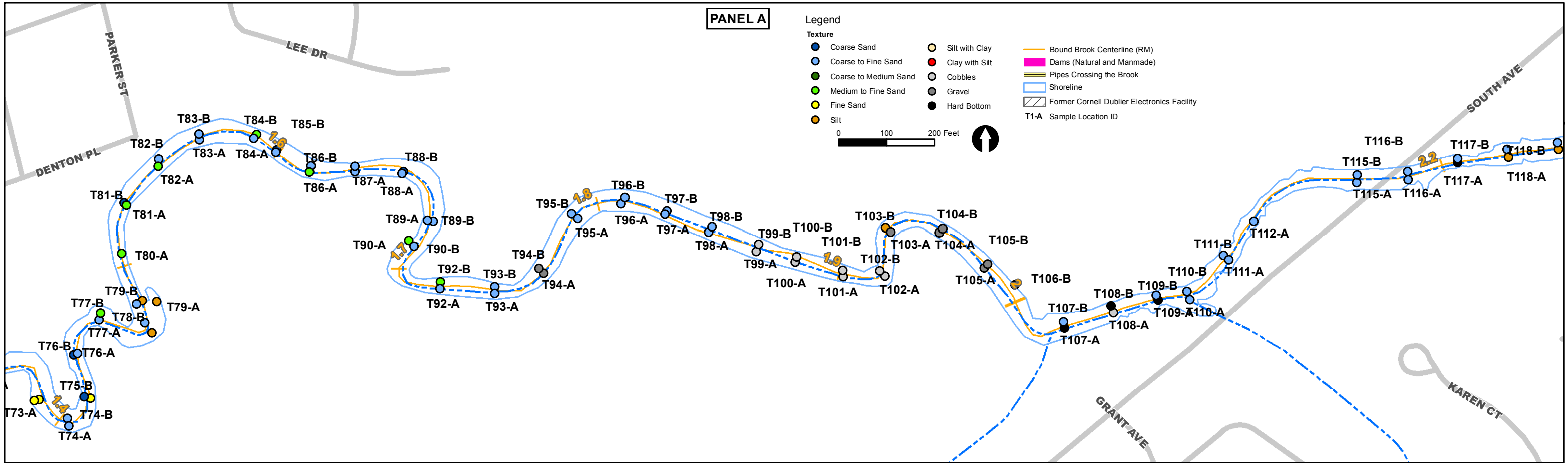
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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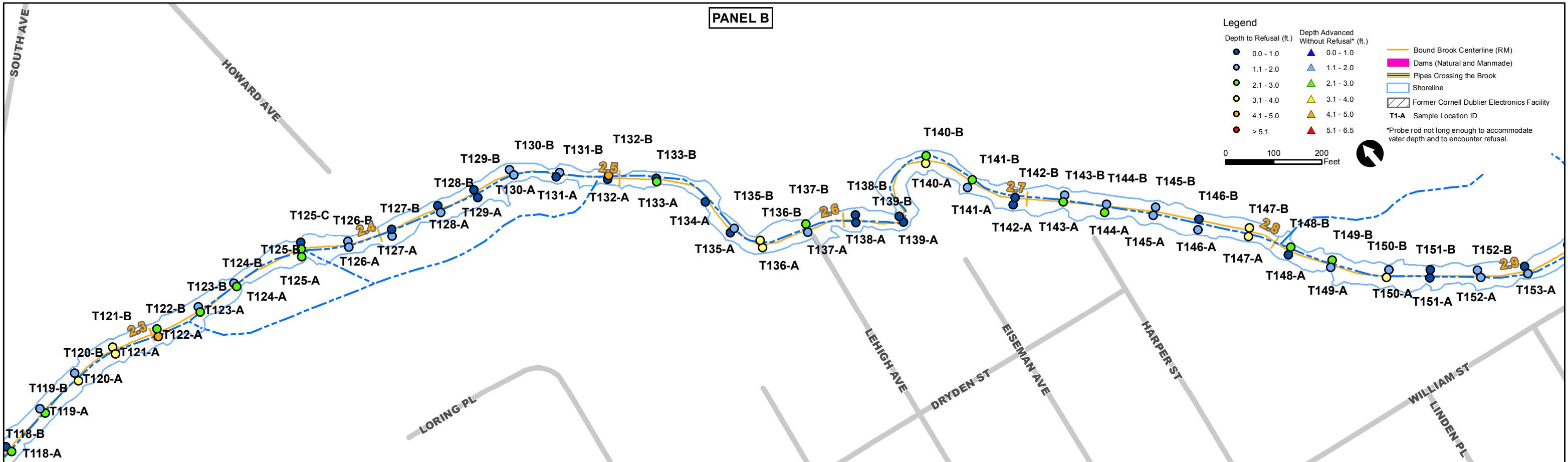
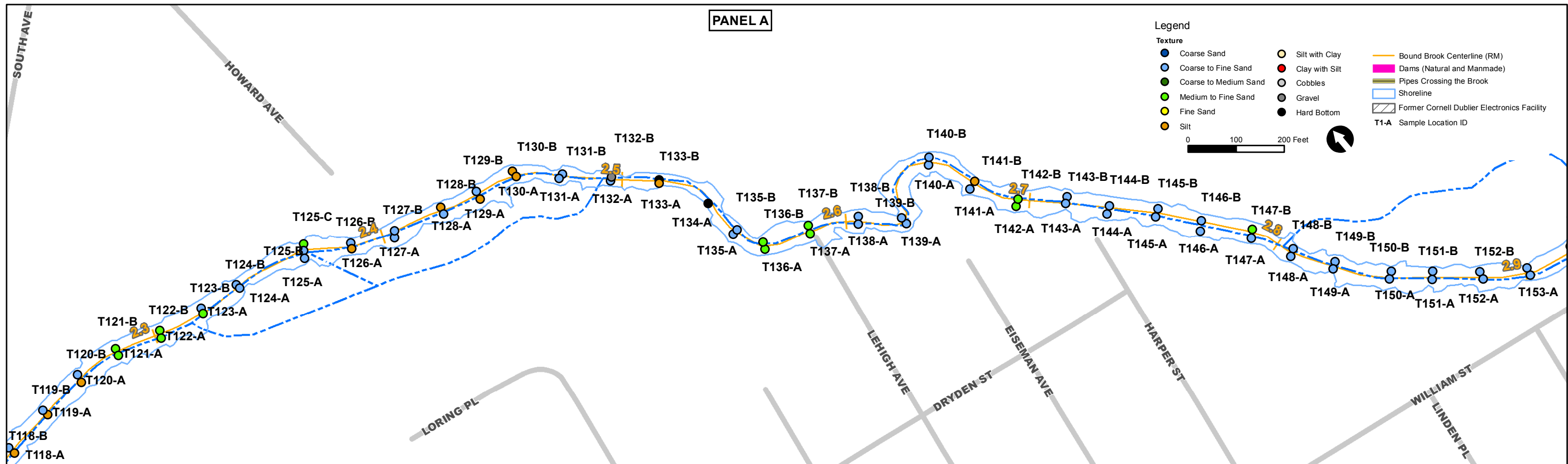
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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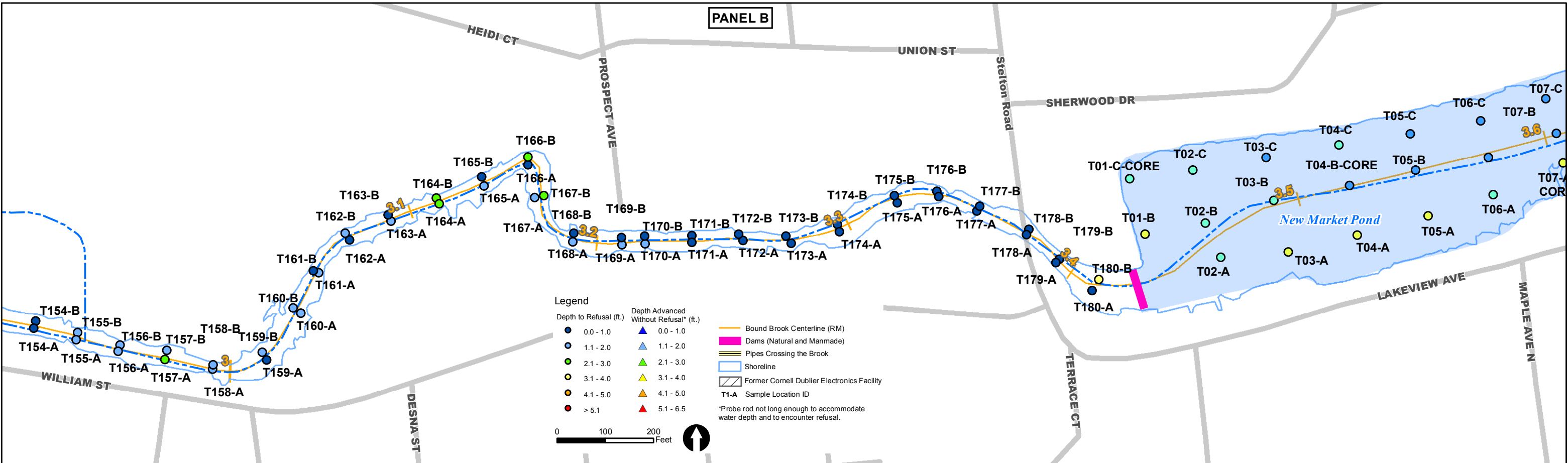
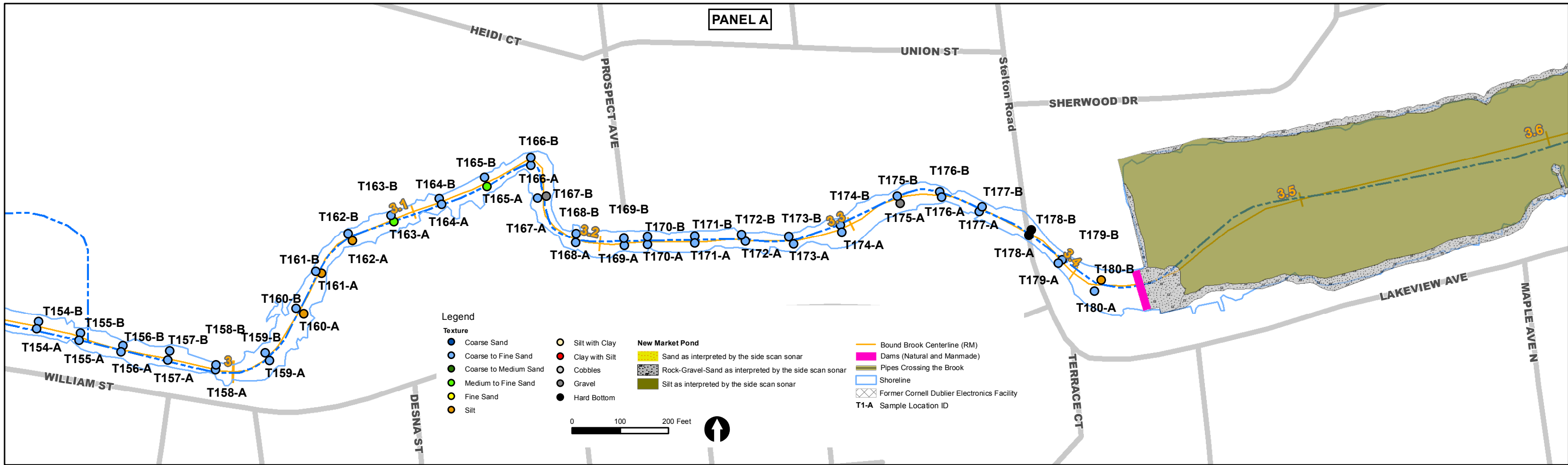
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Bound Brook OU4 RI/FS

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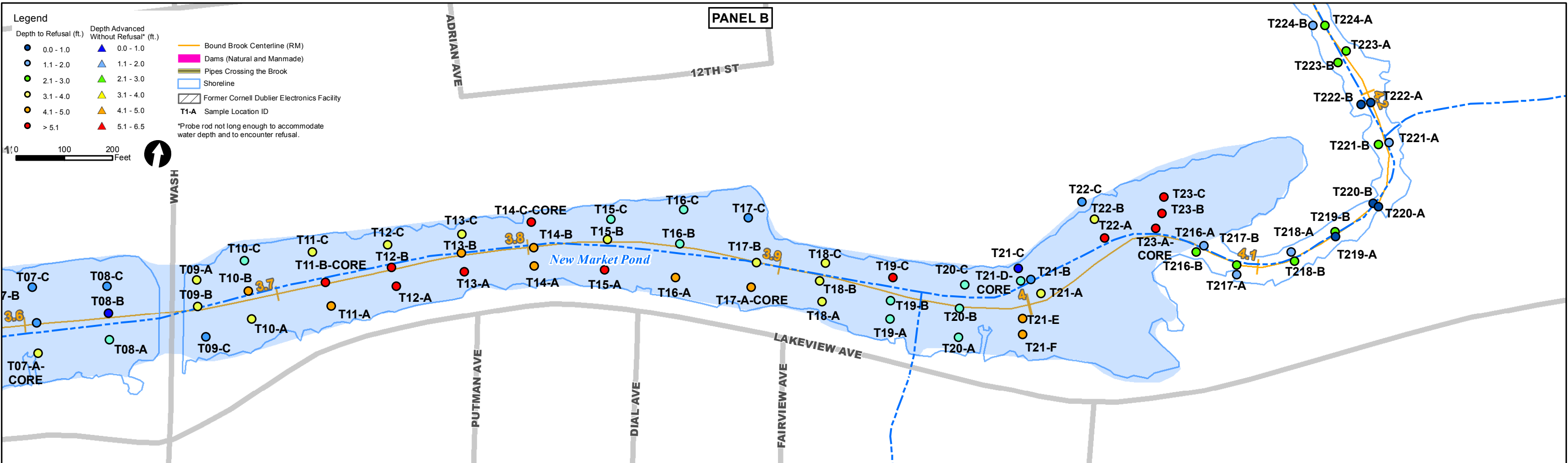
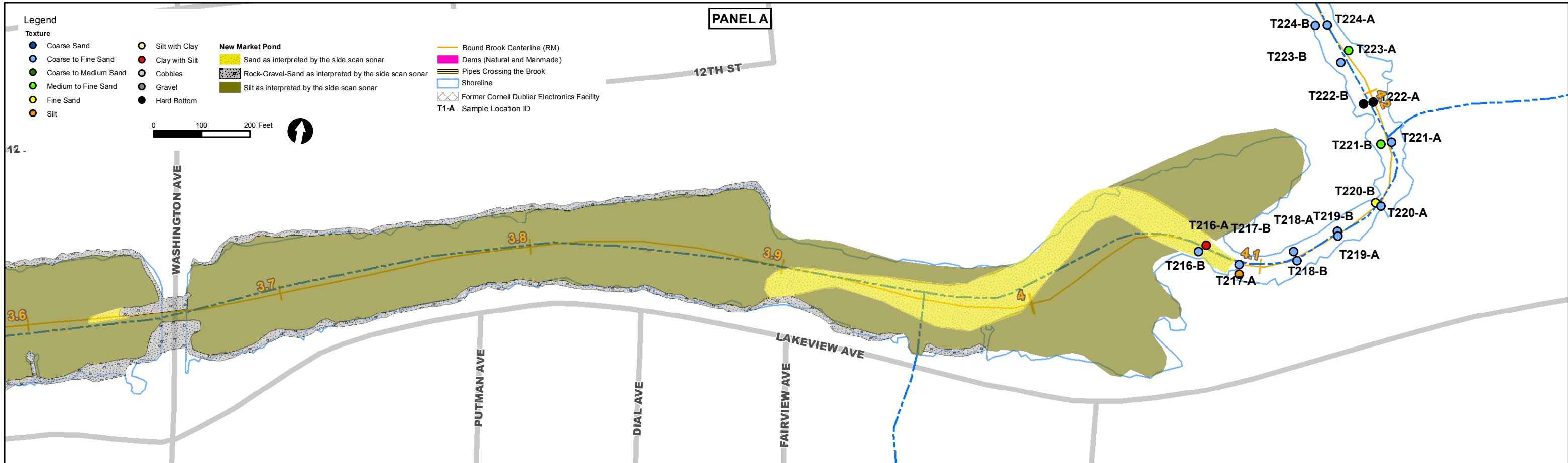
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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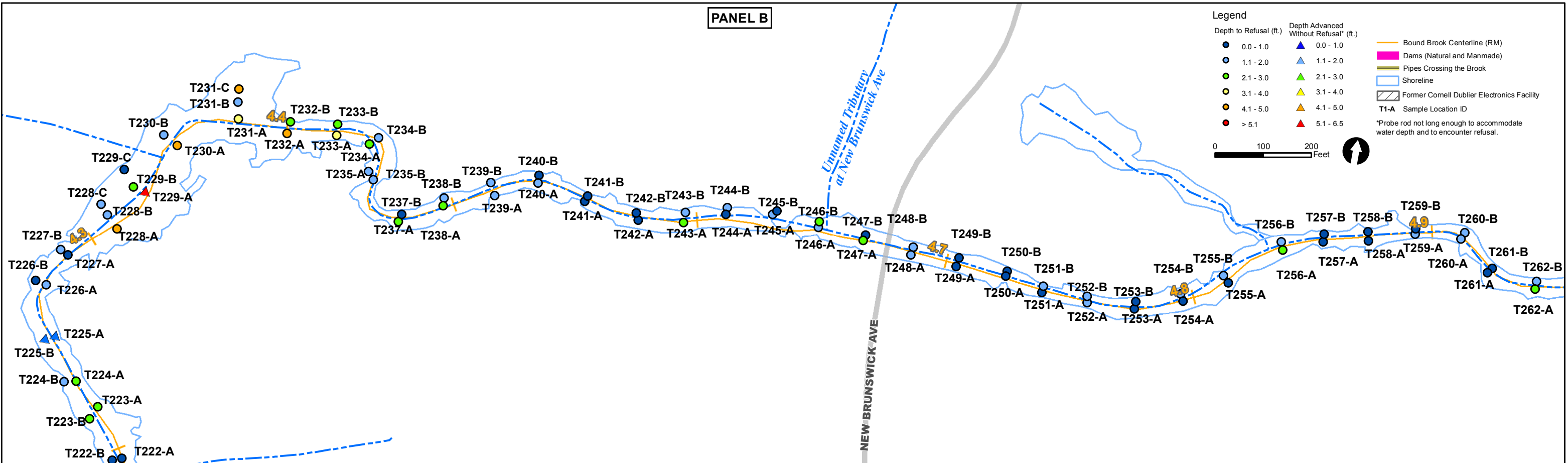
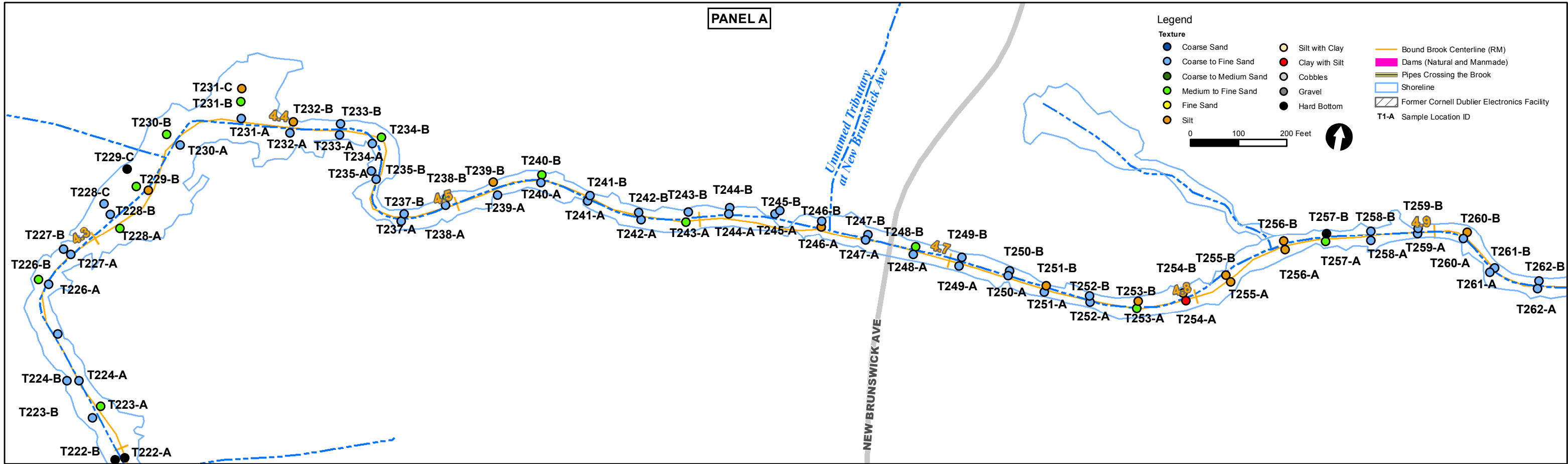


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Bound Brook OU4 RI/FS

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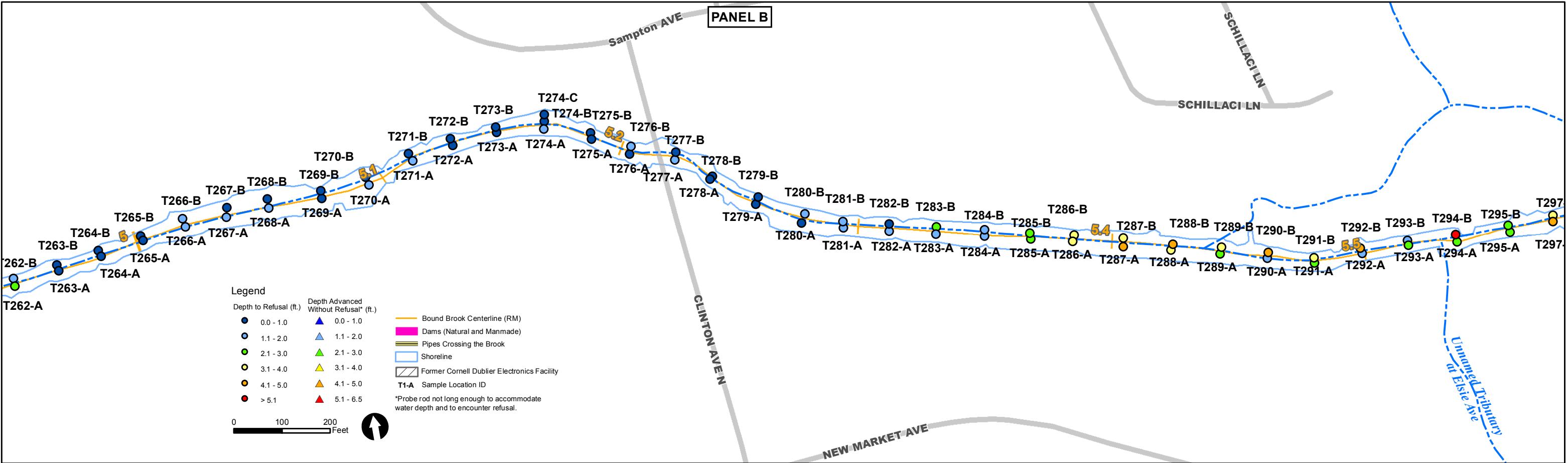
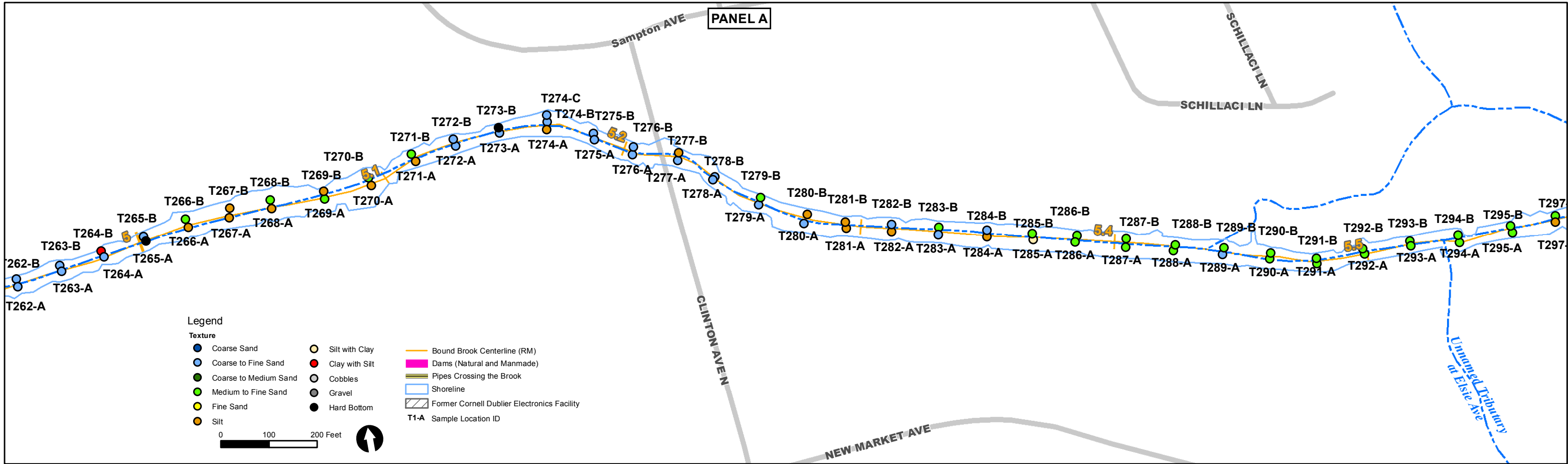
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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Figure 5-1
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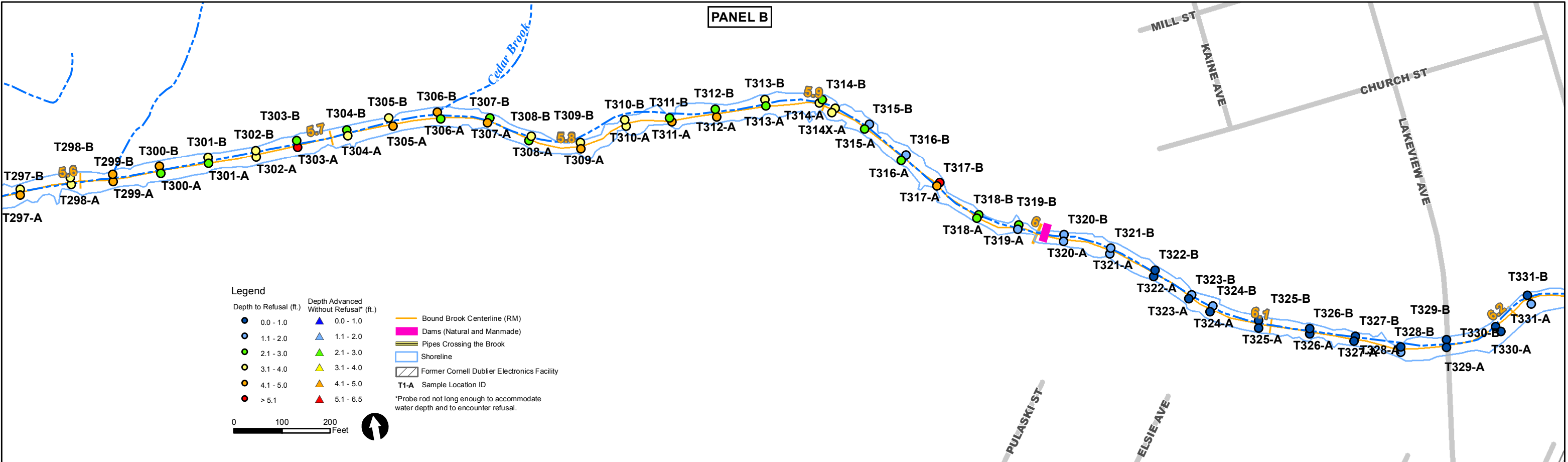
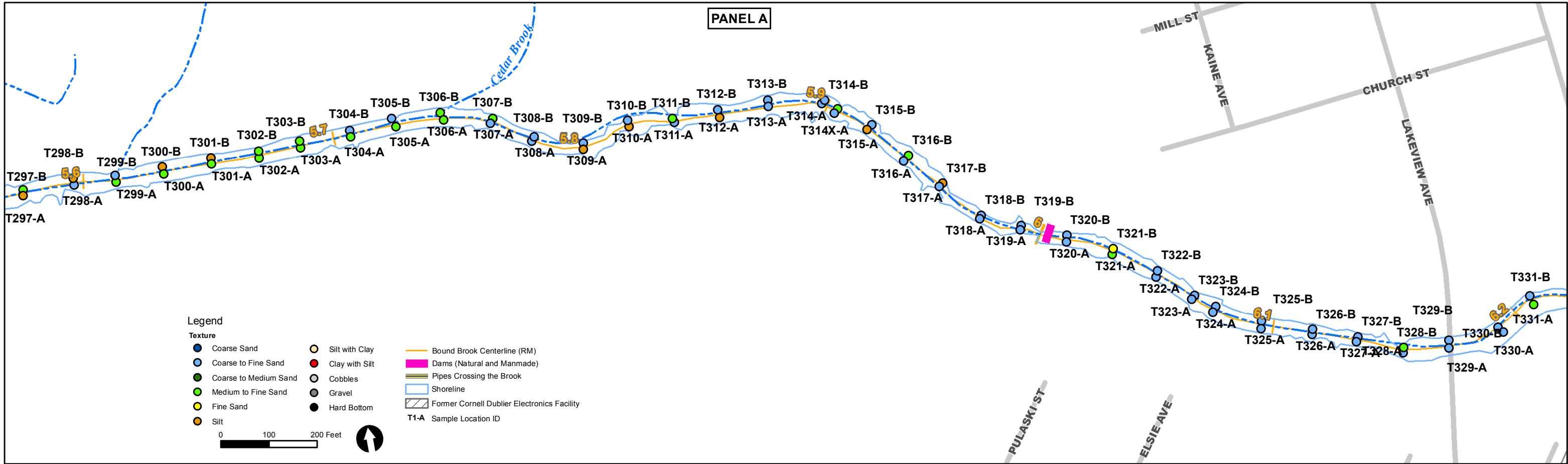
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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Figure 5-1
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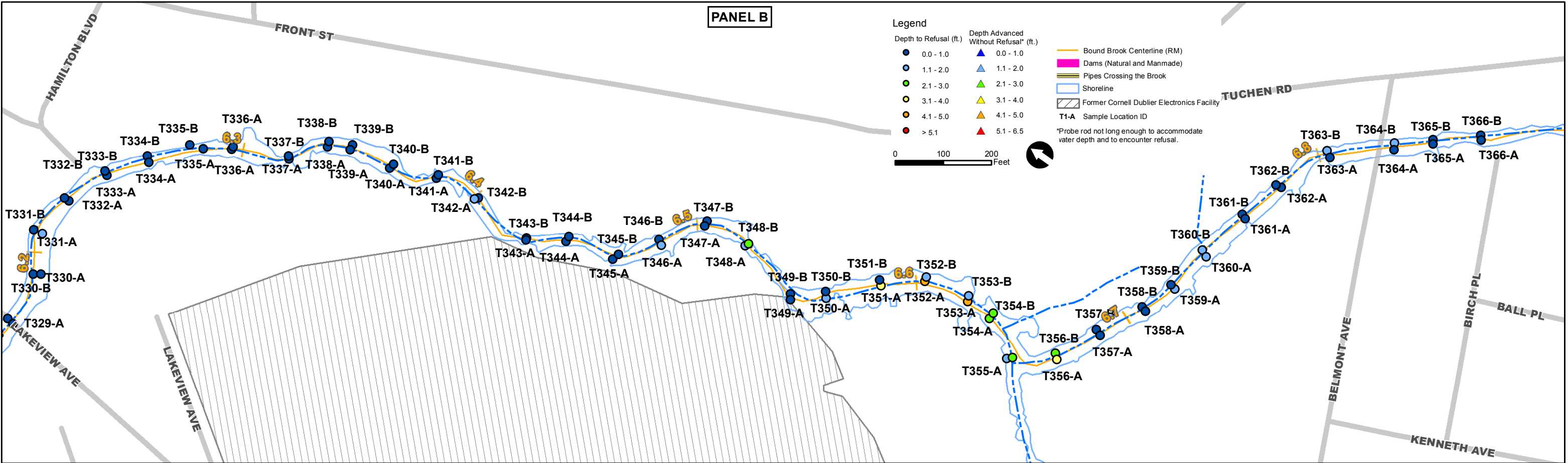
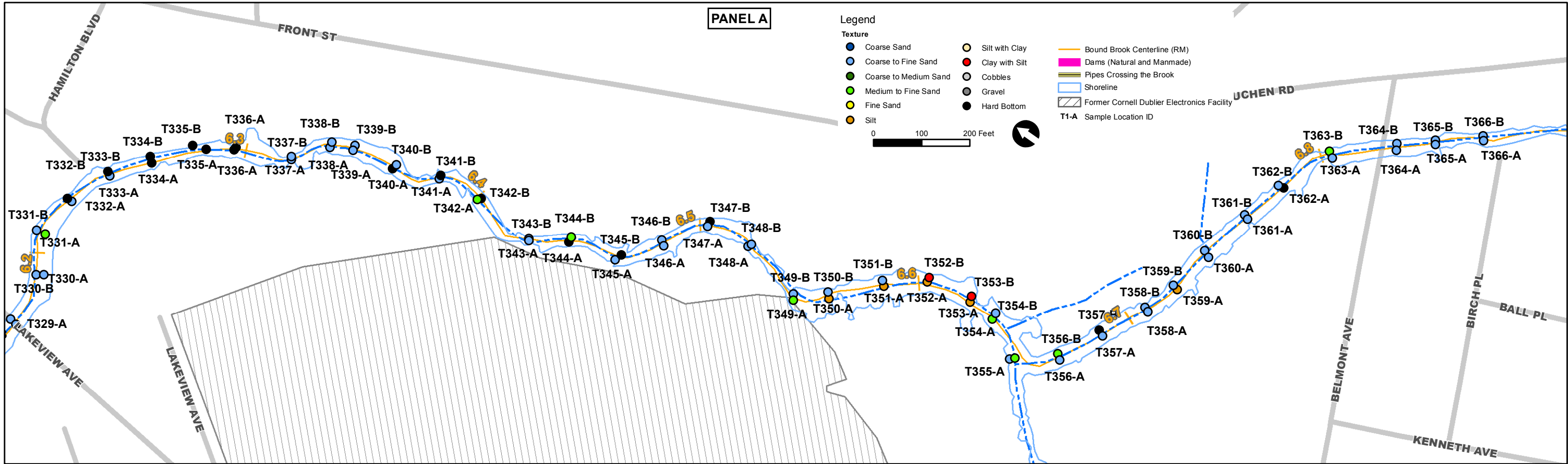
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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Figure 5-1
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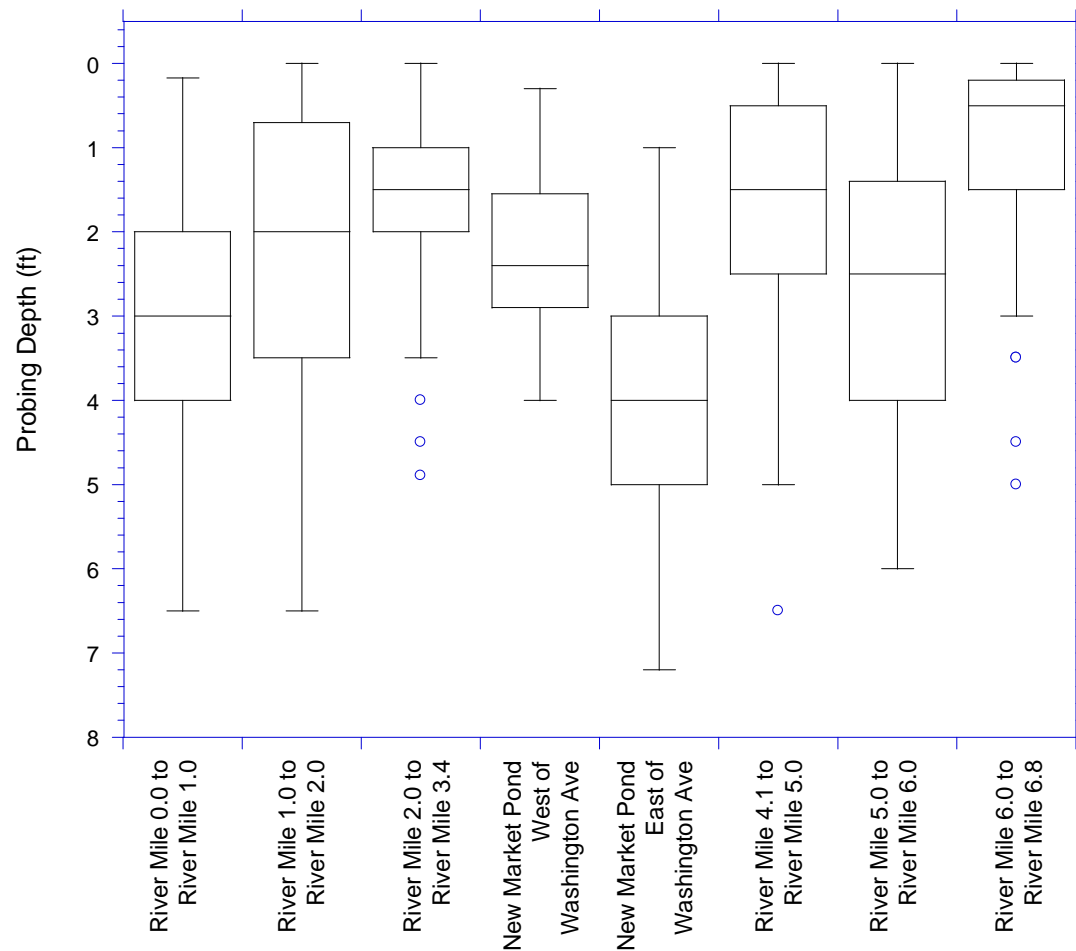
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Sediment Probing Interpretation
Panel A: Surface Sediment Texture and Panel B: Depth of Refusal
Bound Brook OU4 RI/FS

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Figure 5-1
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LEGEND: ○ Outlier as defined by JMP statistical software

Data Minimum ———→

Data Median (50% quantile) ———→

Data Maximum ———→

25% quantile

75% quantile

NOTES:

1. Probing depth is measured as the depth below the sediment surface where refusal was encountered or where the probe rod was not long enough to accommodate the water depth, hence refusal was not encountered (refer to triangle symbols in Figure 5-1).
2. Probing depth was measured using a 0.5 inch diameter graduated copper rod.
3. Quantiles were calculated using JMP Version 9.0.3.



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Sediment Probing Penetration Depth along

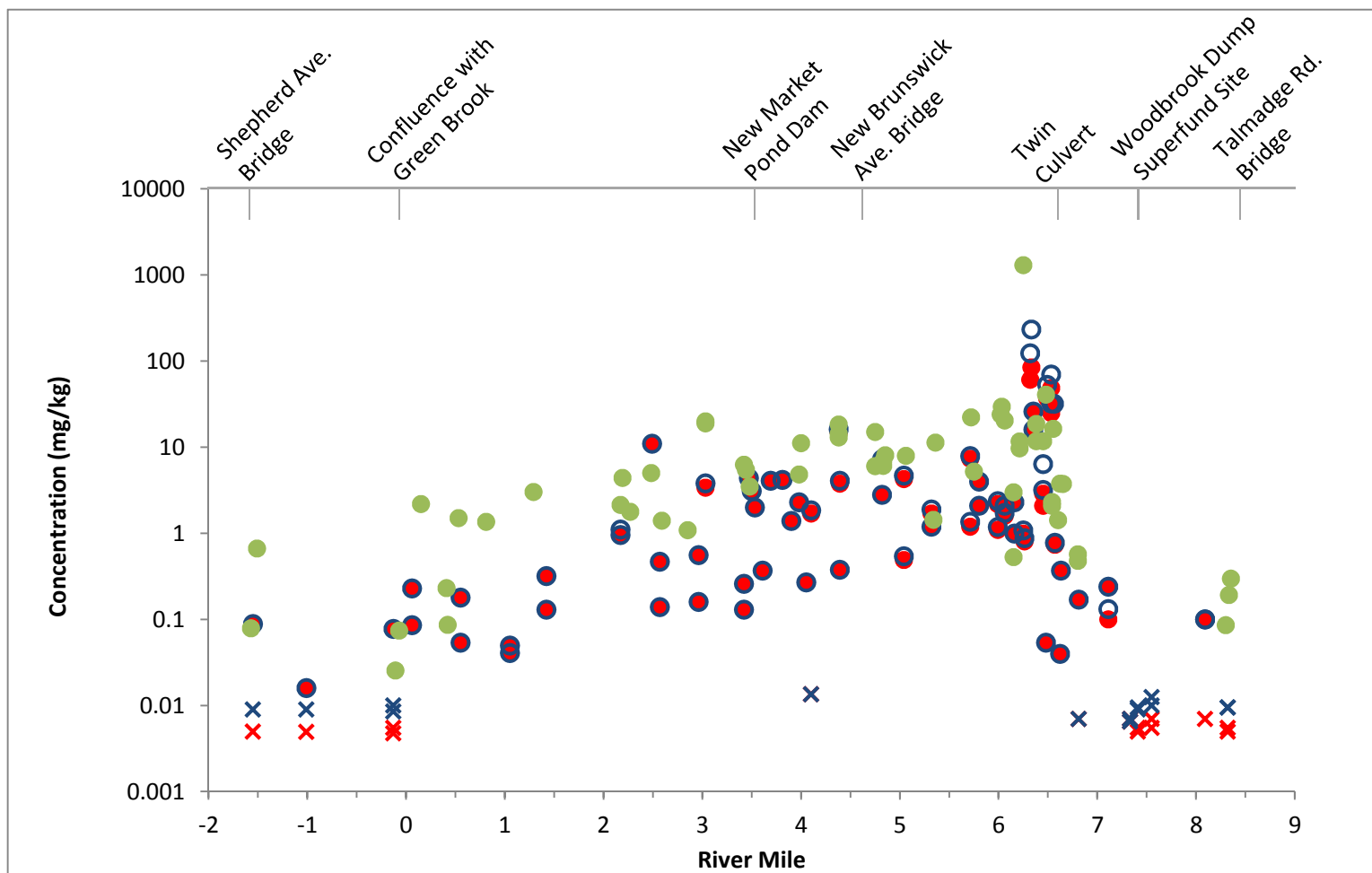
Bound Brook

Bound Brook CWA RI/FS

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FIGURE 5-2

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LEGEND:

- CLP Aroclor 1254 Detected Concentrations
- ✕ CLP Aroclor 1254 Nondetected Concentrations
- CLP Total PCB Aroclor Detected Concentrations
- ✕ CLP Total PCB Aroclor Nondetected Concentrations
- Subcontractor Total PCB Congeners Detected Concentrations

NOTES:

1. For samples with field duplicates, the average concentration is provided.
2. PCB Aroclor analysis was performed by USEPA CLP laboratories following CLP Scope of Work SOM01.2. Total PCB Aroclor is the summation of Aroclors 1242, 1254, and 1260. Nondetected concentrations were incorporated into the summation as zero. If all three Aroclor mixtures were nondetected, then half of the highest detection limit was reported.
3. PCB Congener analysis was performed by Axyx Analytical Services, Ltd. following lab SOP MLA 010, based on USEPA Method 1668C. Total PCB Congeners is the summation of the 209 congeners. Co-eluting PCB congeners are counted once in the summation. Nondetected concentrations were incorporated into the summation as zero.



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Comparison of Analytical Methods: Total PCB
Aroclor and Total PCB Congener
Bound Brook, NJ 4/1/13

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FIGURE 5-3

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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

2013
Figure 5-4
Sheet 1 of 6

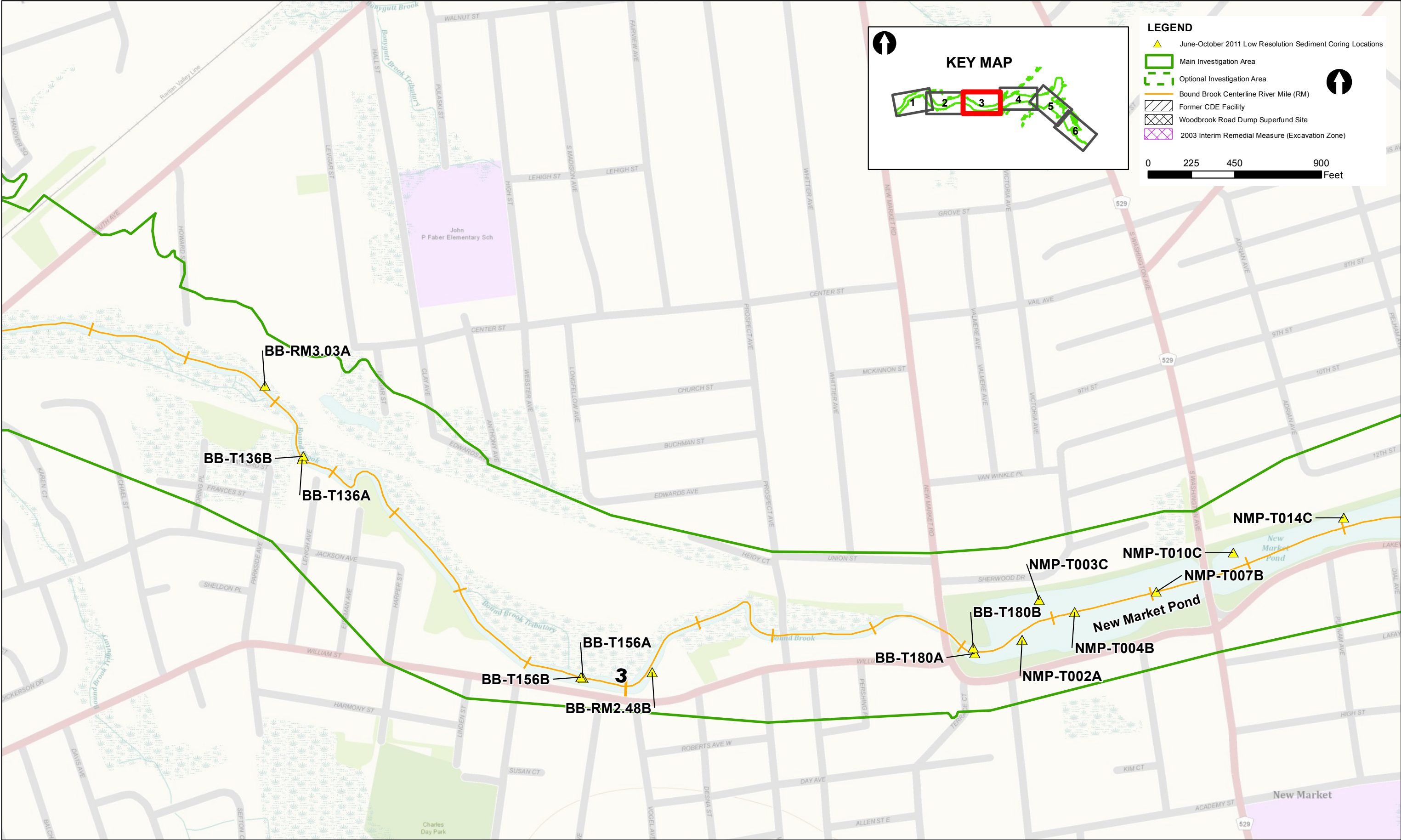


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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

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Figure 5-4
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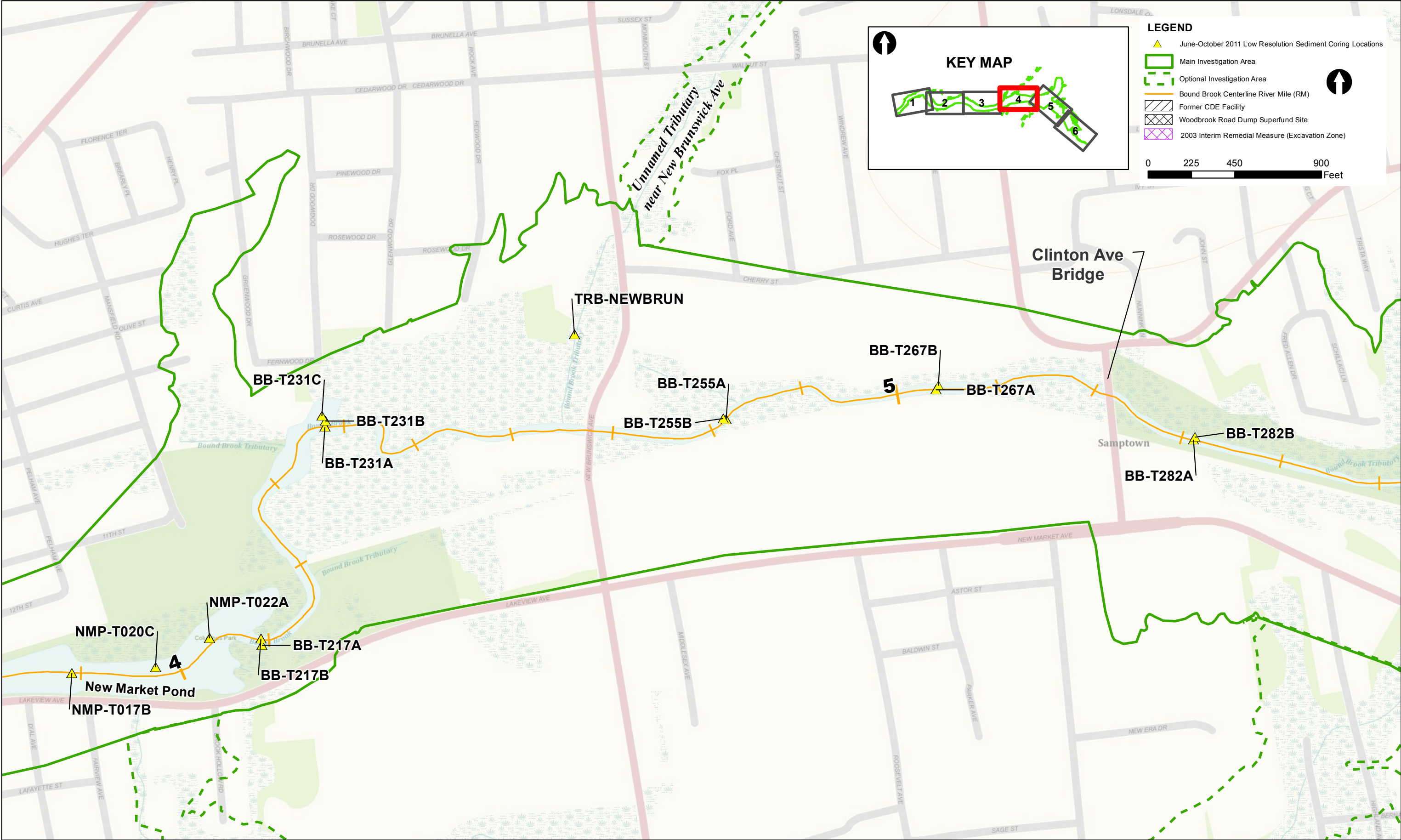


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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

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Figure 5-4
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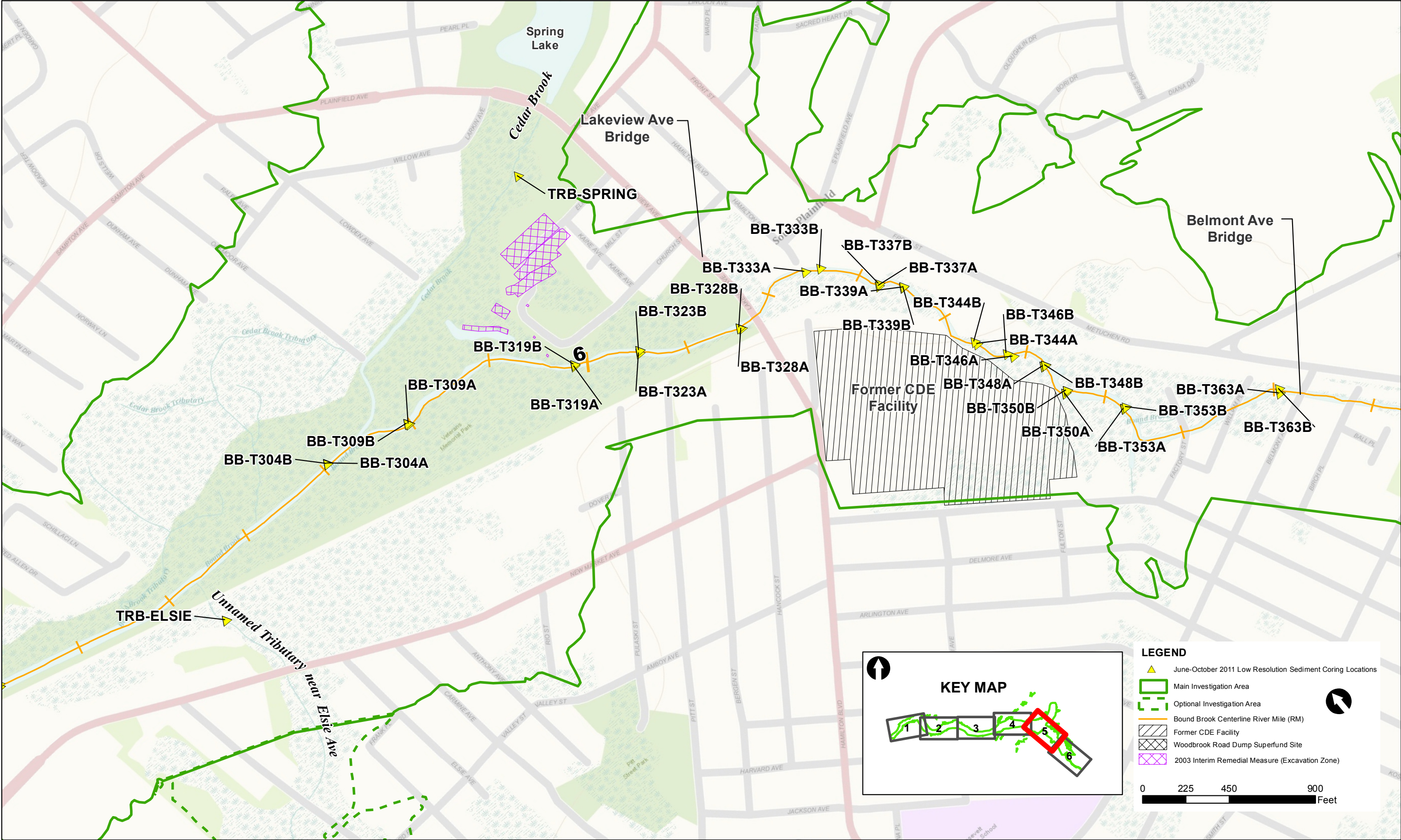


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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

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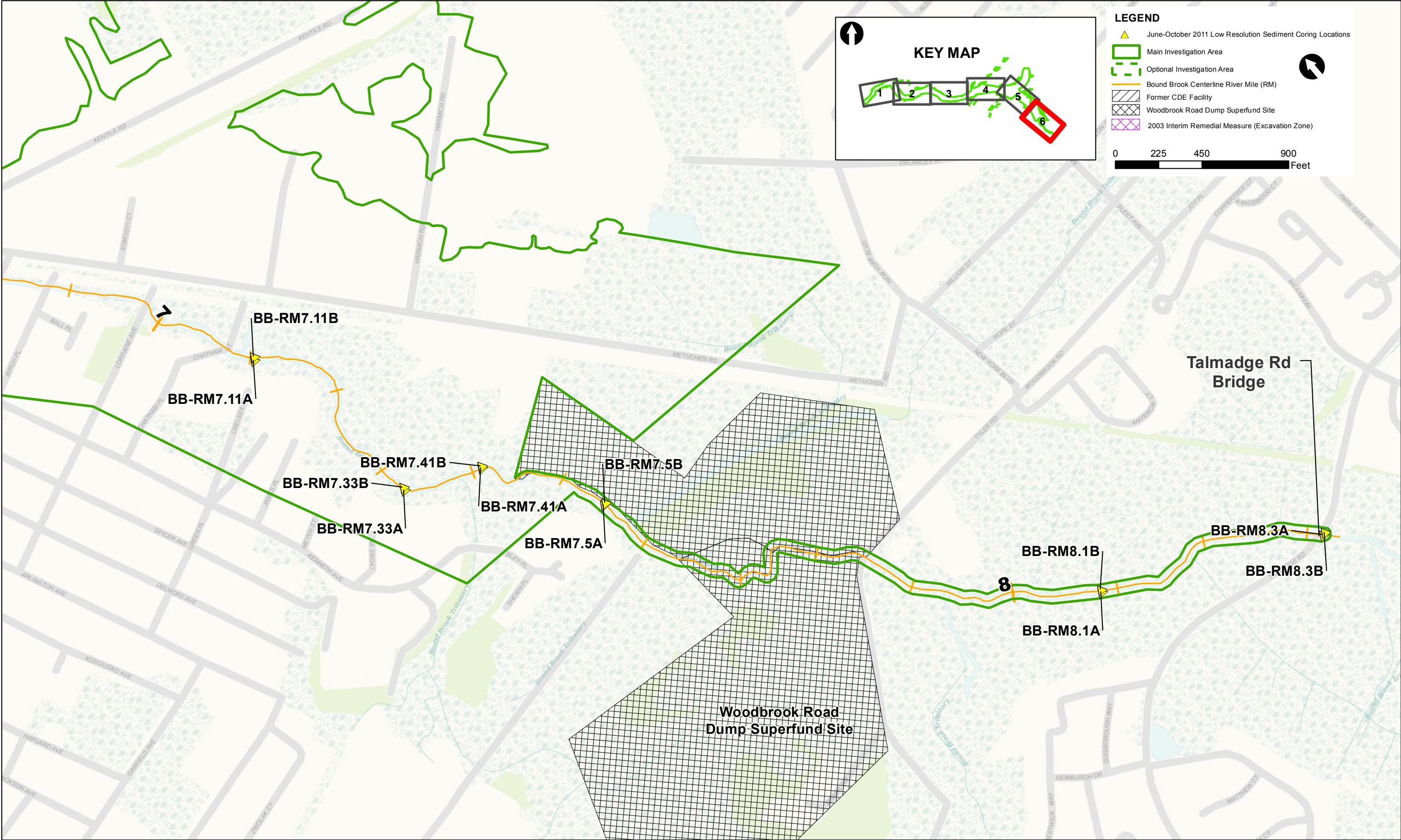


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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

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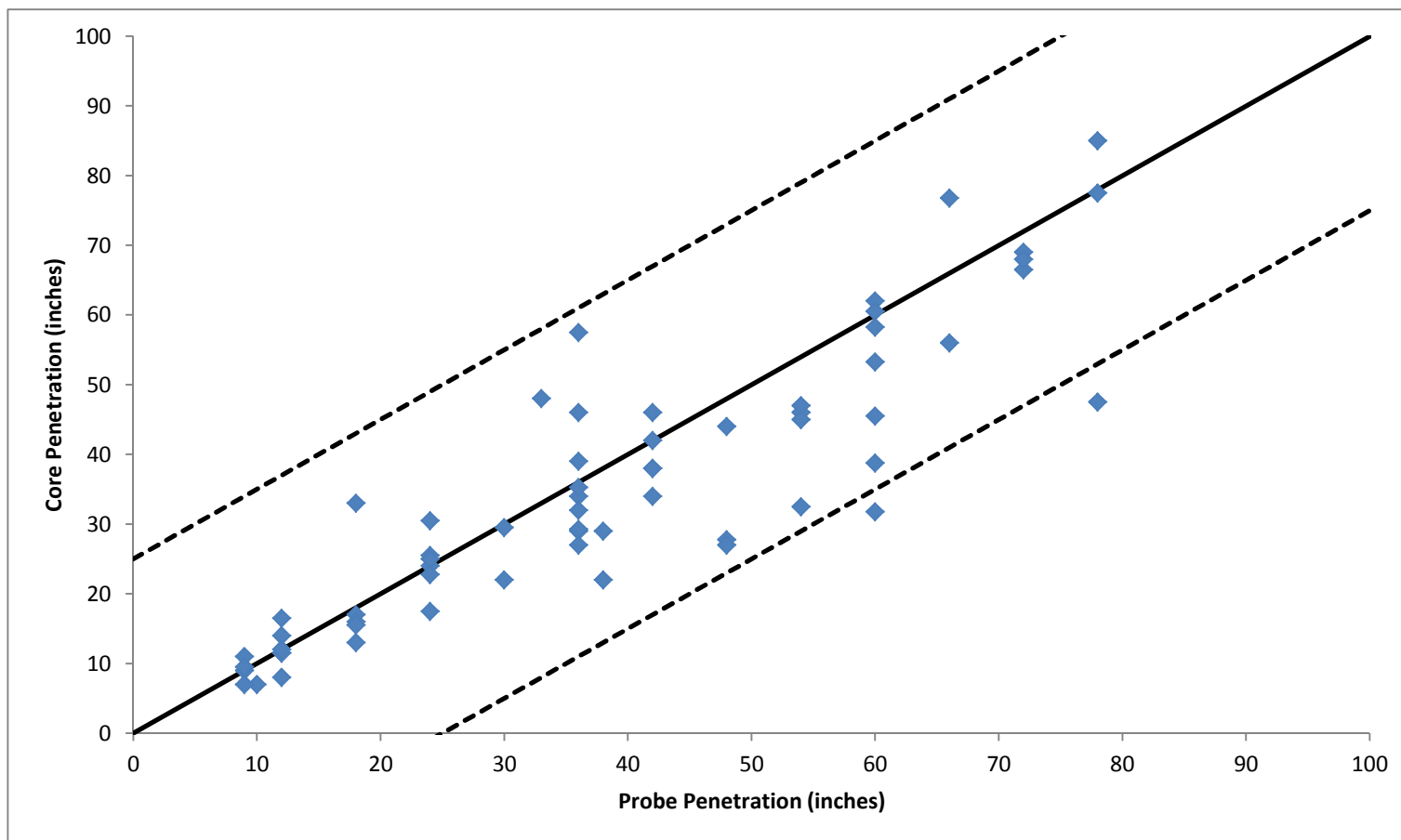


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Low Resolution Sediment Coring Locations
Bound Brook OU4 RI/FS

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Figure 5-4
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LEGEND:

- ◆ Penetration
- 1:1 line
- - - ±25% uncertainty on 1:1 line

NOTES:

1. Penetration is measured as the depth below the sediment surface where refusal was encountered.
2. Low resolution cores consisted of 3.25" OD x 3.00" ID Lexan tubes manually advanced using a fence-post driver.
3. Probe penetration was measured using a 0.5 inch diameter graduated copper rod.
4. A total of 88 sediment cores were collected. Penetration is presented for 63 locations. Cores from New Market Pond (9), grab samples (6), and cores with unrecorded penetration (10) are not presented.



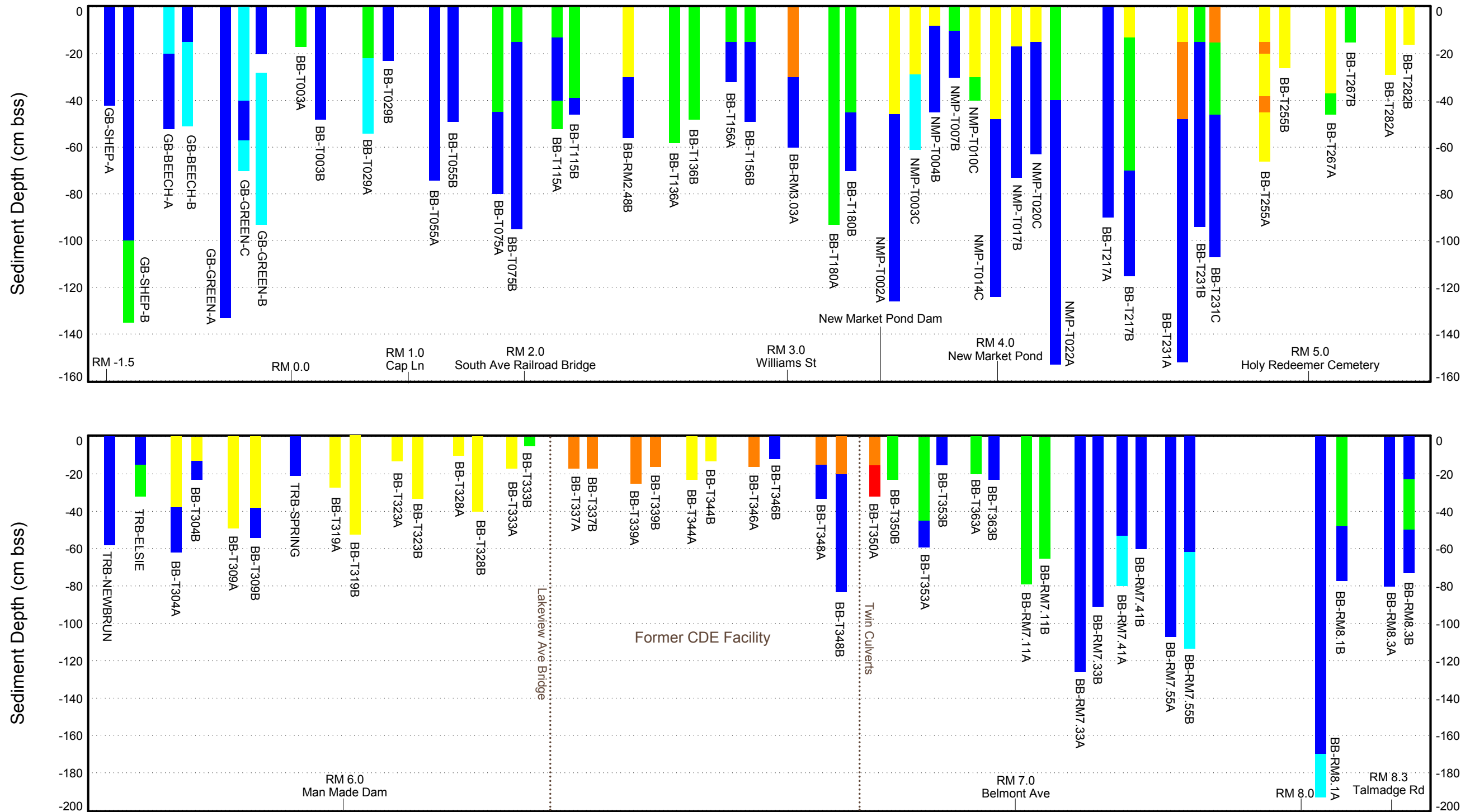
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South Plainfield, NJ

Comparison of Low Resolution Core Penetration
and Sediment Probe Penetration
Bould Brook DN4RI/S

2013

FIGURE 5-5

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Notes:

1. Non-detected concentrations are incorporated into the presentation as equal to their method detection limit.
2. Rejected concentrations are omitted in the presentation and will be projected as a break in the depth profile.
3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
4. Duplicate samples have been omitted from the presentation.
5. For transect BB-T231, A-core is located on the right bank looking upstream, B-core in the middle of the channel, and the C-core on the left bank looking upstream. For transect GB-GREEN, the A-core and B-core were initially collected equally spaced across the brook. The C-core was subsequently collected from the middle of the channel to further characterize the transect. In New Market Pond, sediment cores were co-located with the 2010 sediment probing points. Core designations correspond to the sediment probing sample identification letter, where the A-probing location was on the right bank looking upstream, the B-probing location was in the middle of the pond, and the C-probing location was on the left bank looking upstream.

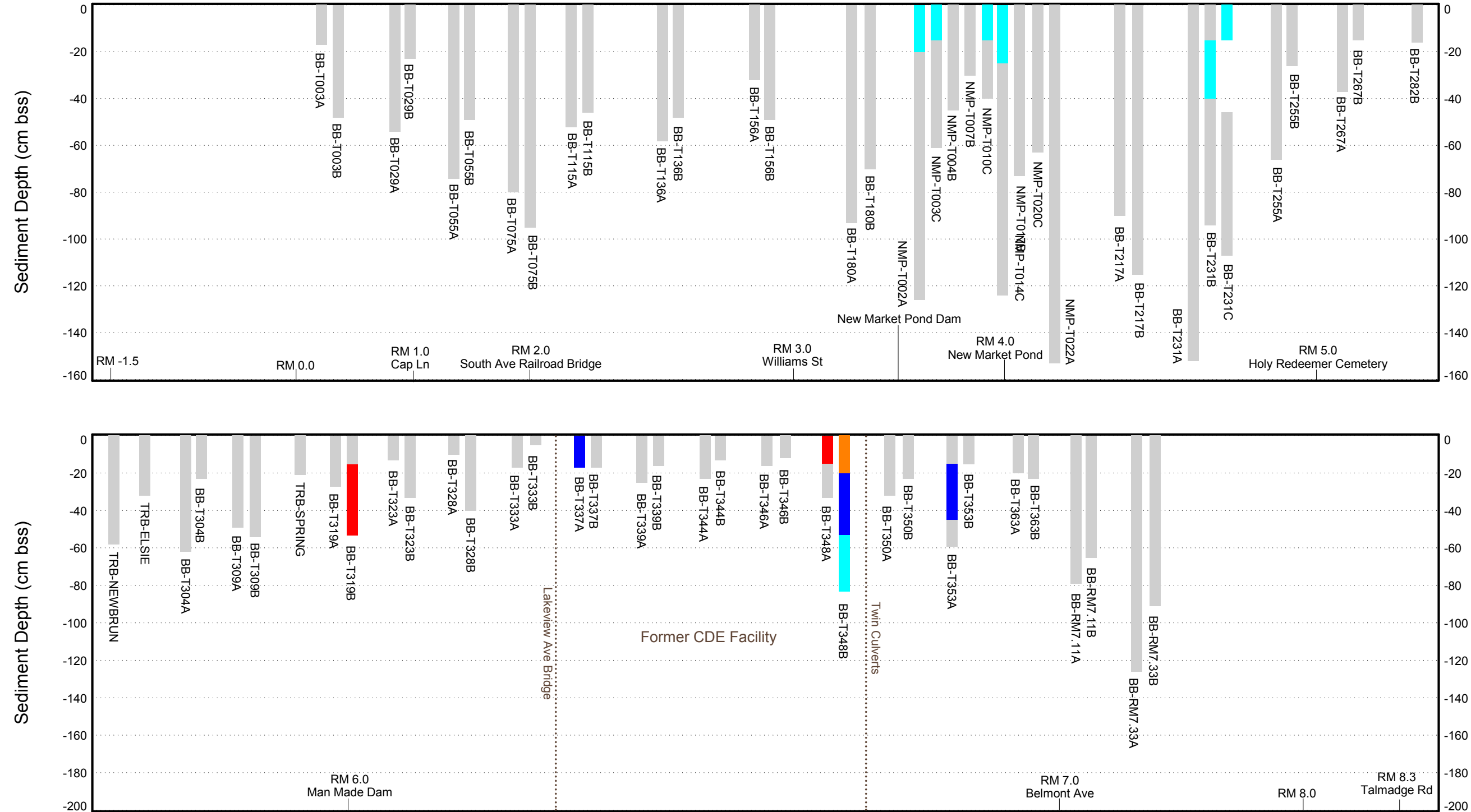
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Cornell-Dubilier Electronics Superfund Site
OU4 Bound Brook
Low Resolution Sediment Cores
DATA EVALUATION AND ANALYSIS RI/FS

CONCENTRATION-DEPTH PROFILE: Aroclor-1254

2013

Figure
5-6a



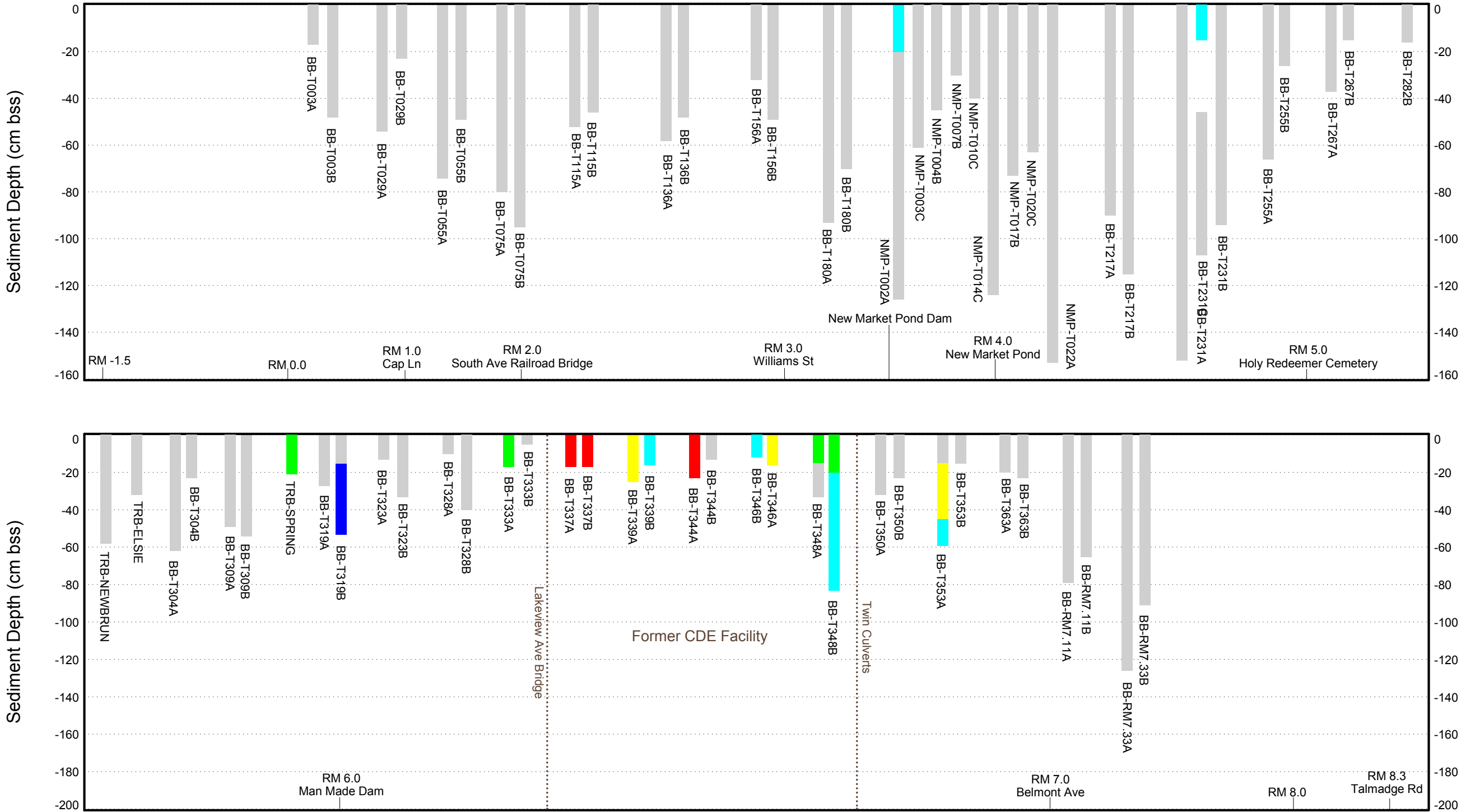
Notes:

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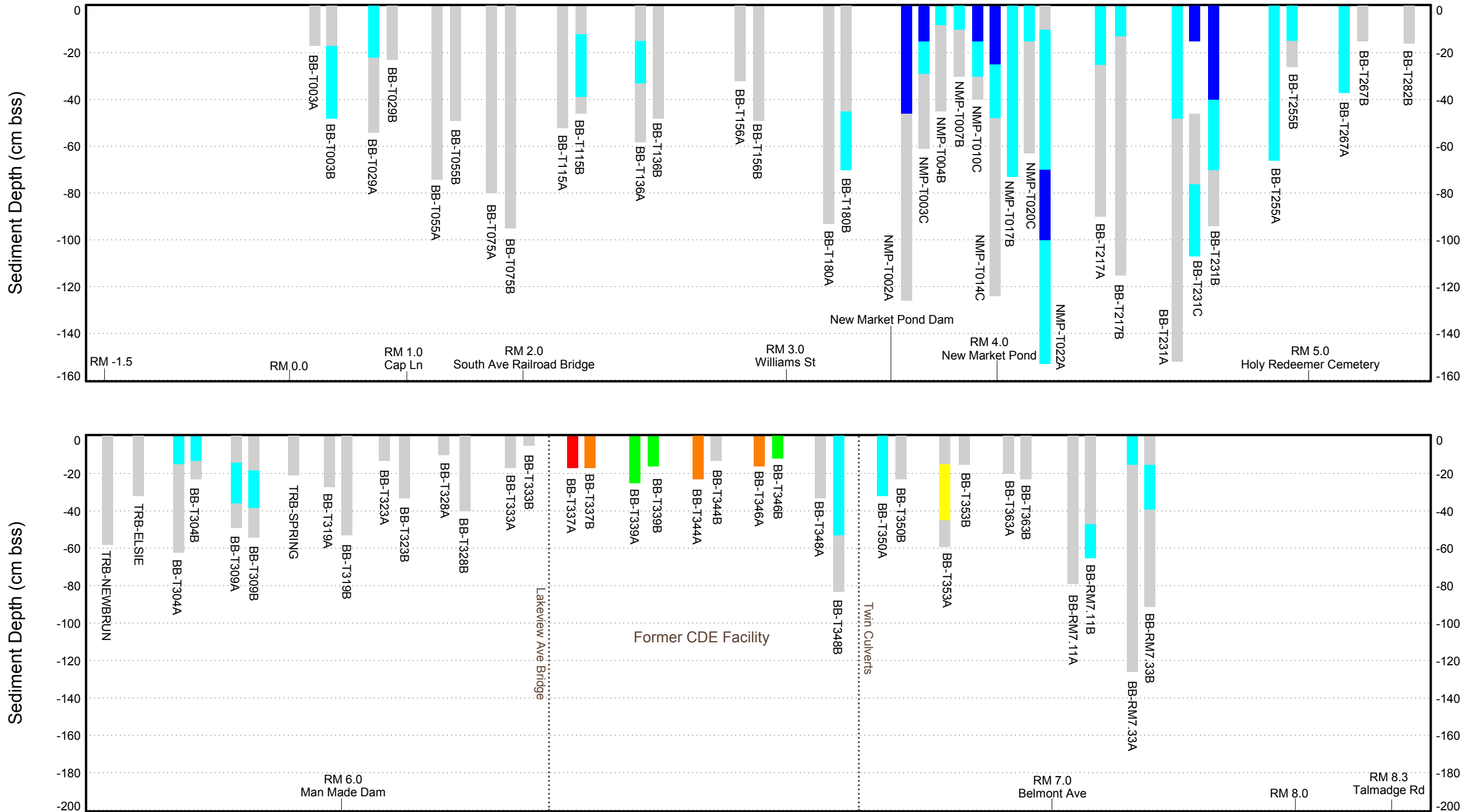
Cornell-Dubilier Electronics Superfund Site OU4 Bound Brook Low Resolution Sediment Cores DATA EVALUATION AND ANALYSIS RI/FS	
CONCENTRATION-DEPTH PROFILE: Trichloroethene	
2013	Figure 5-6b



Notes:

1. Non-detected concentrations are incorporated into the presentation as equal to their method detection limit.
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3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
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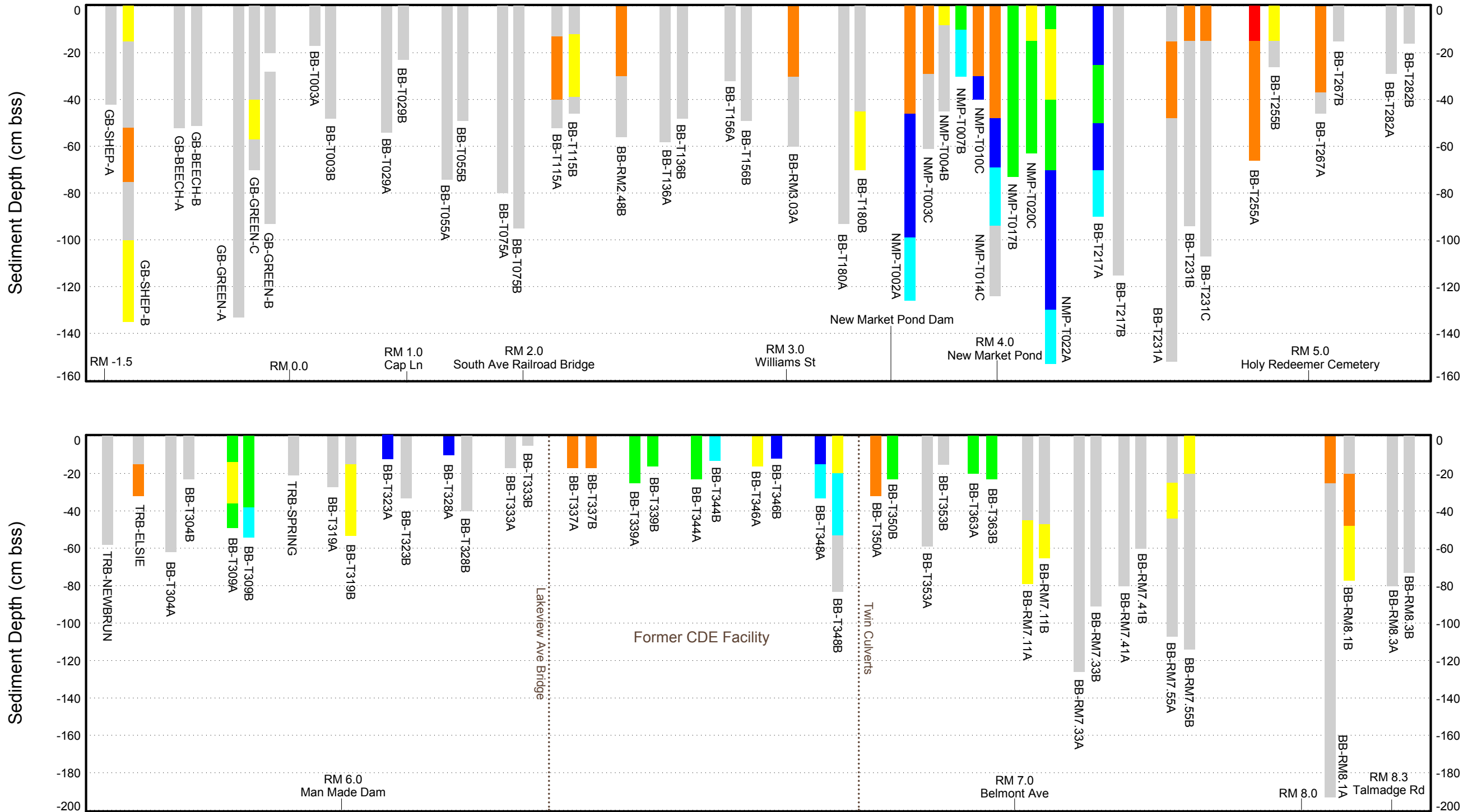
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Cornell-Dubilier Electronics Superfund Site OU4 Bound Brook Low Resolution Sediment Cores DATA EVALUATION AND ANALYSIS RI/FS	
CONCENTRATION-DEPTH PROFILE: Vinyl Chloride	
2013	Figure 5-6d



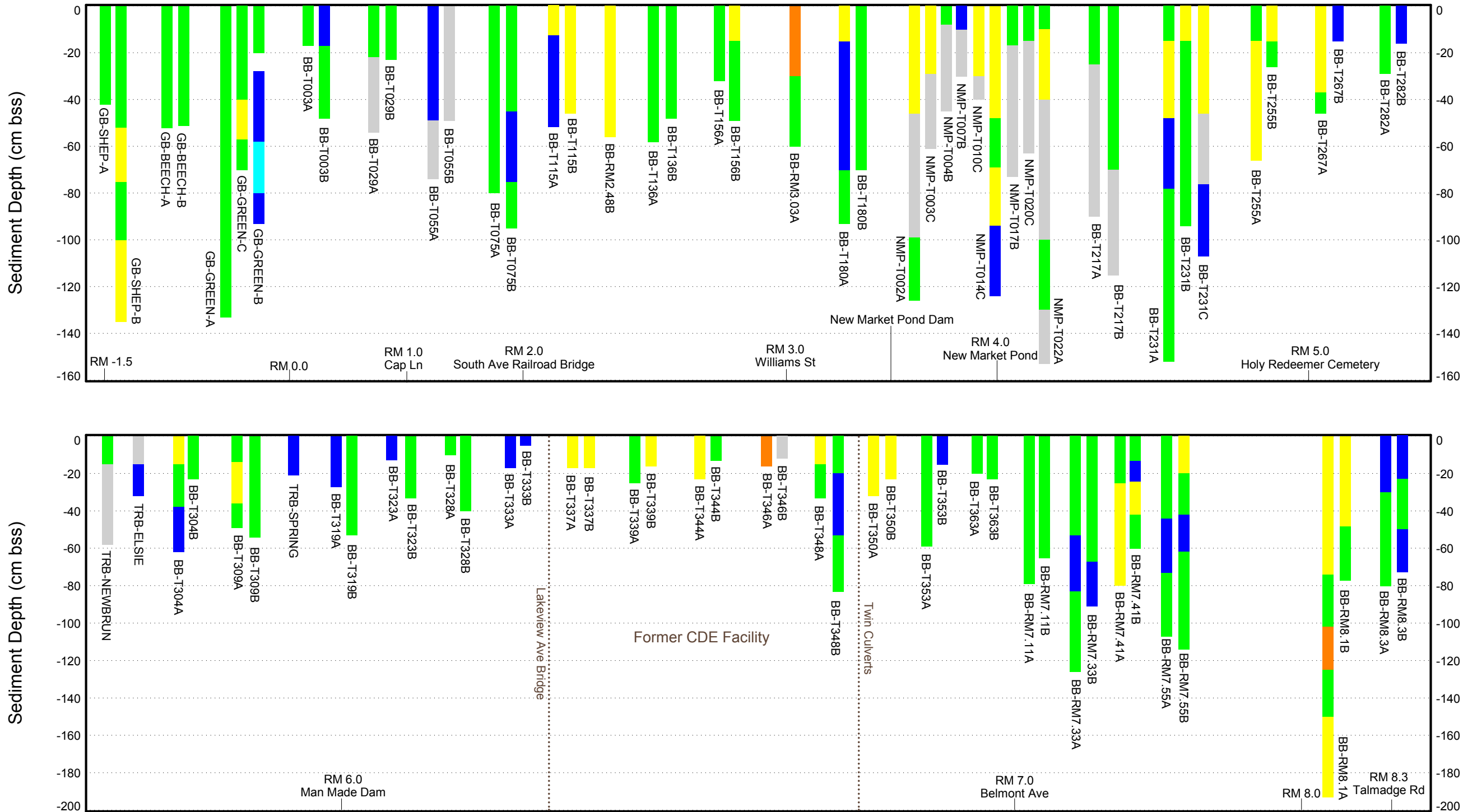
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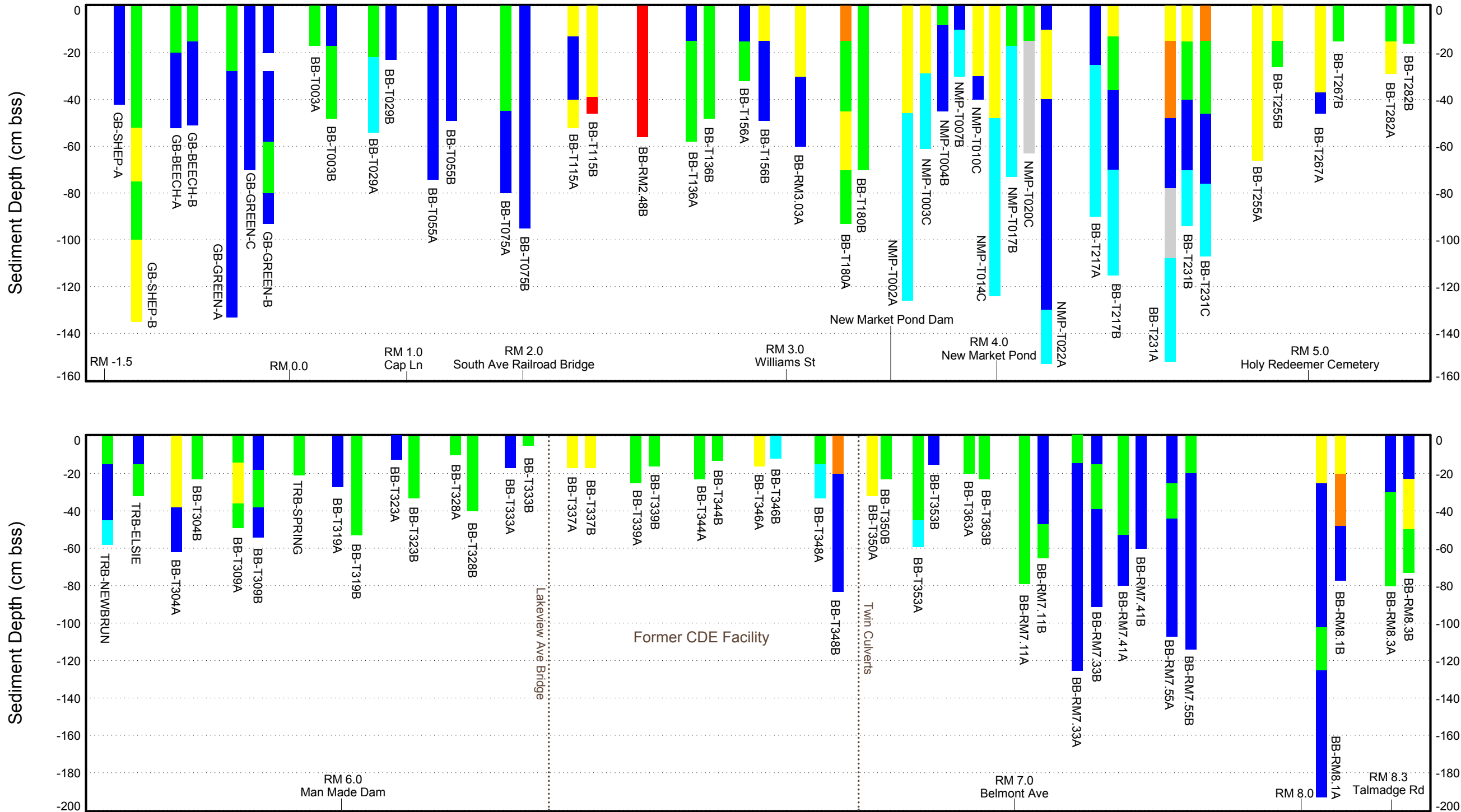
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Cornell-Dubilier Electronics Superfund Site OU4 Bound Brook Low Resolution Sediment Cores DATA EVALUATION AND ANALYSIS RI/FS	
CONCENTRATION-DEPTH PROFILE: Mercury	
2013	Figure 5-6e

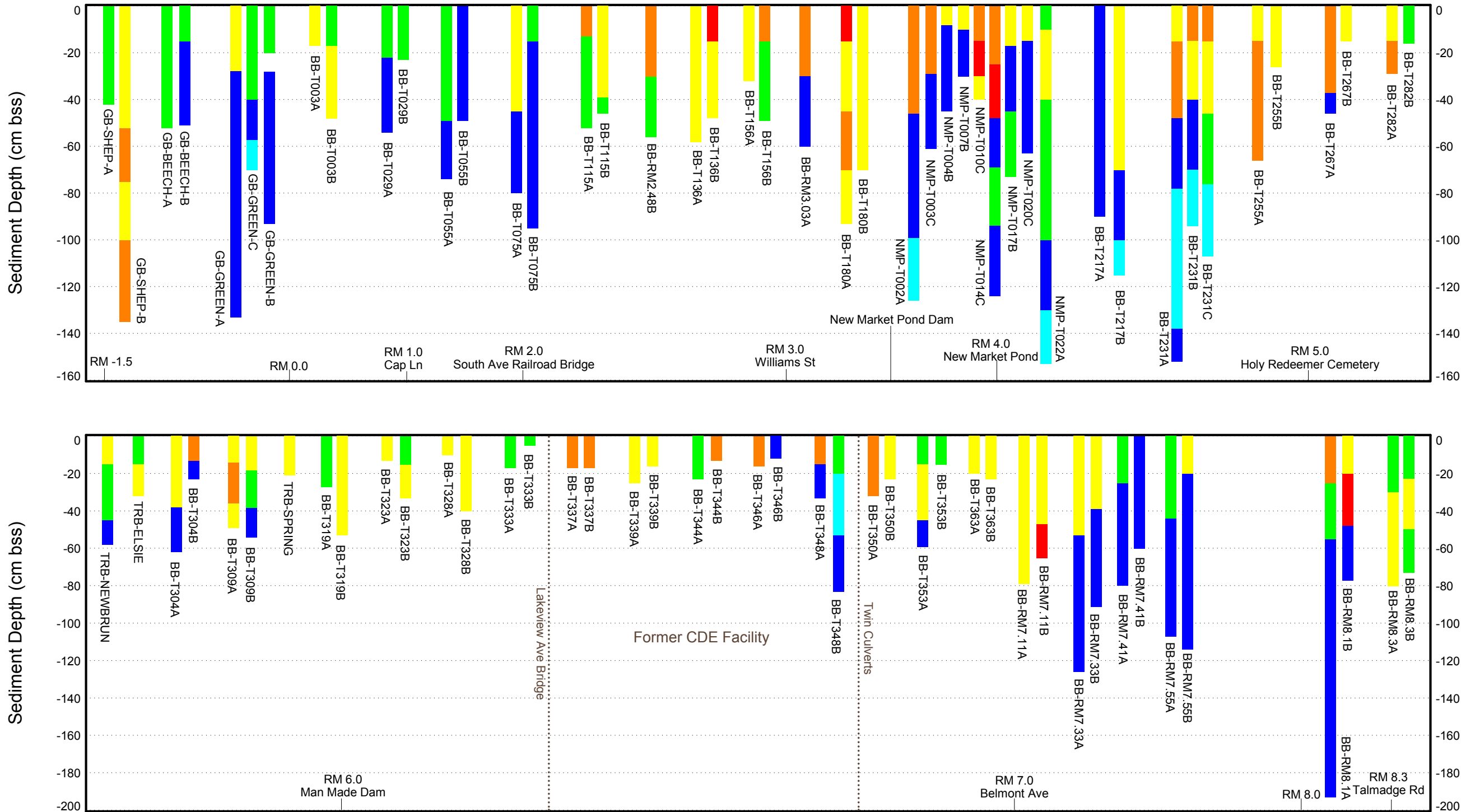


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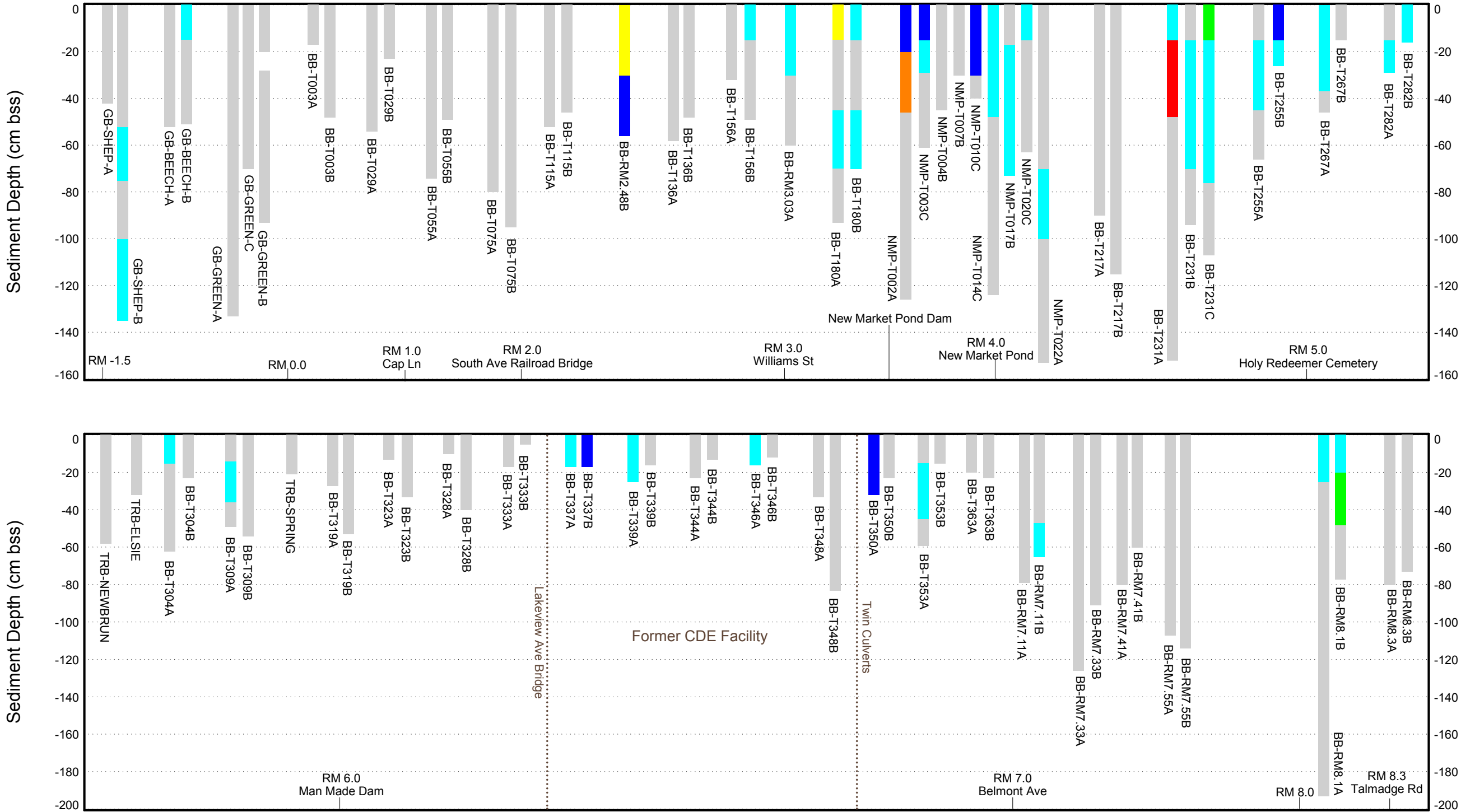
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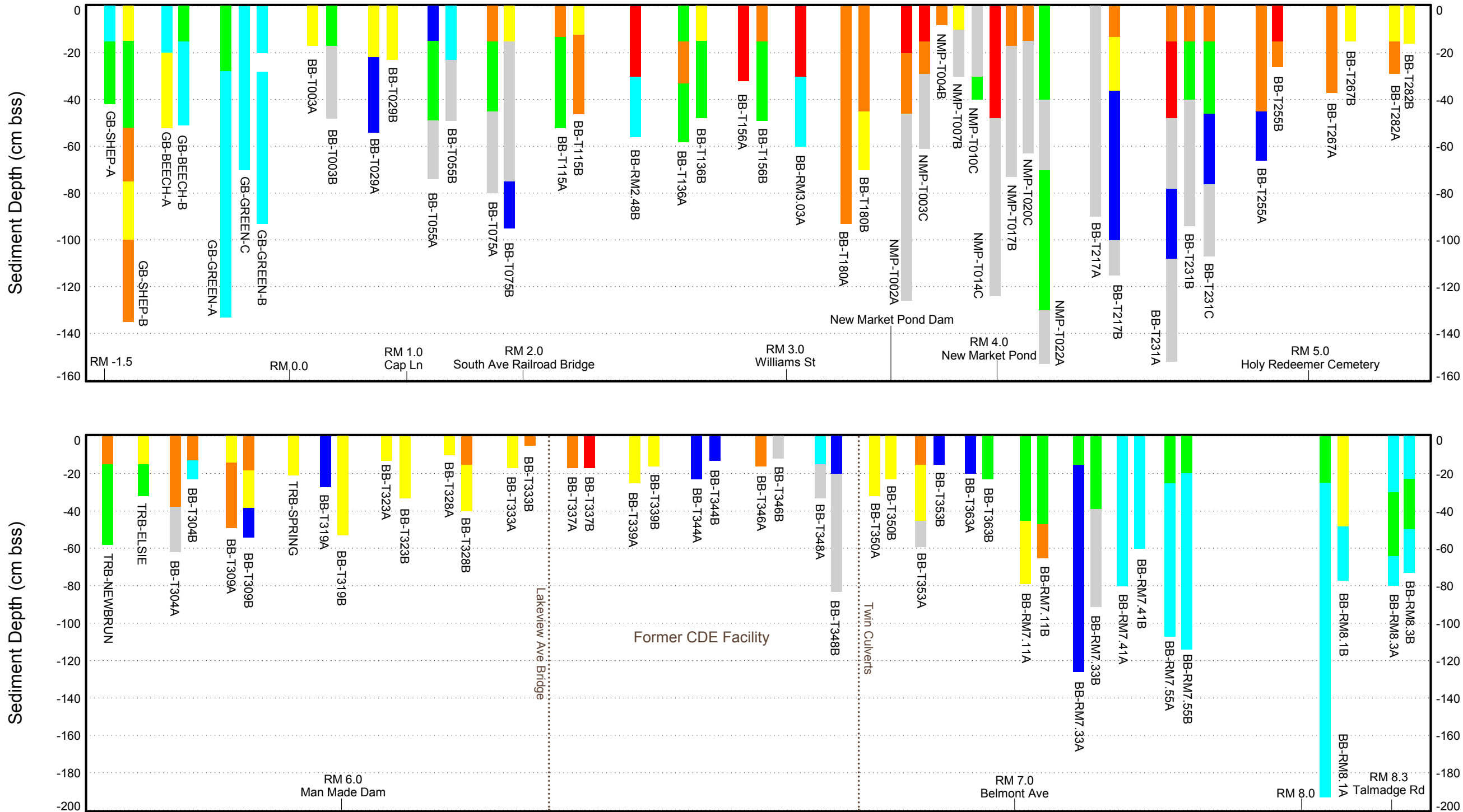
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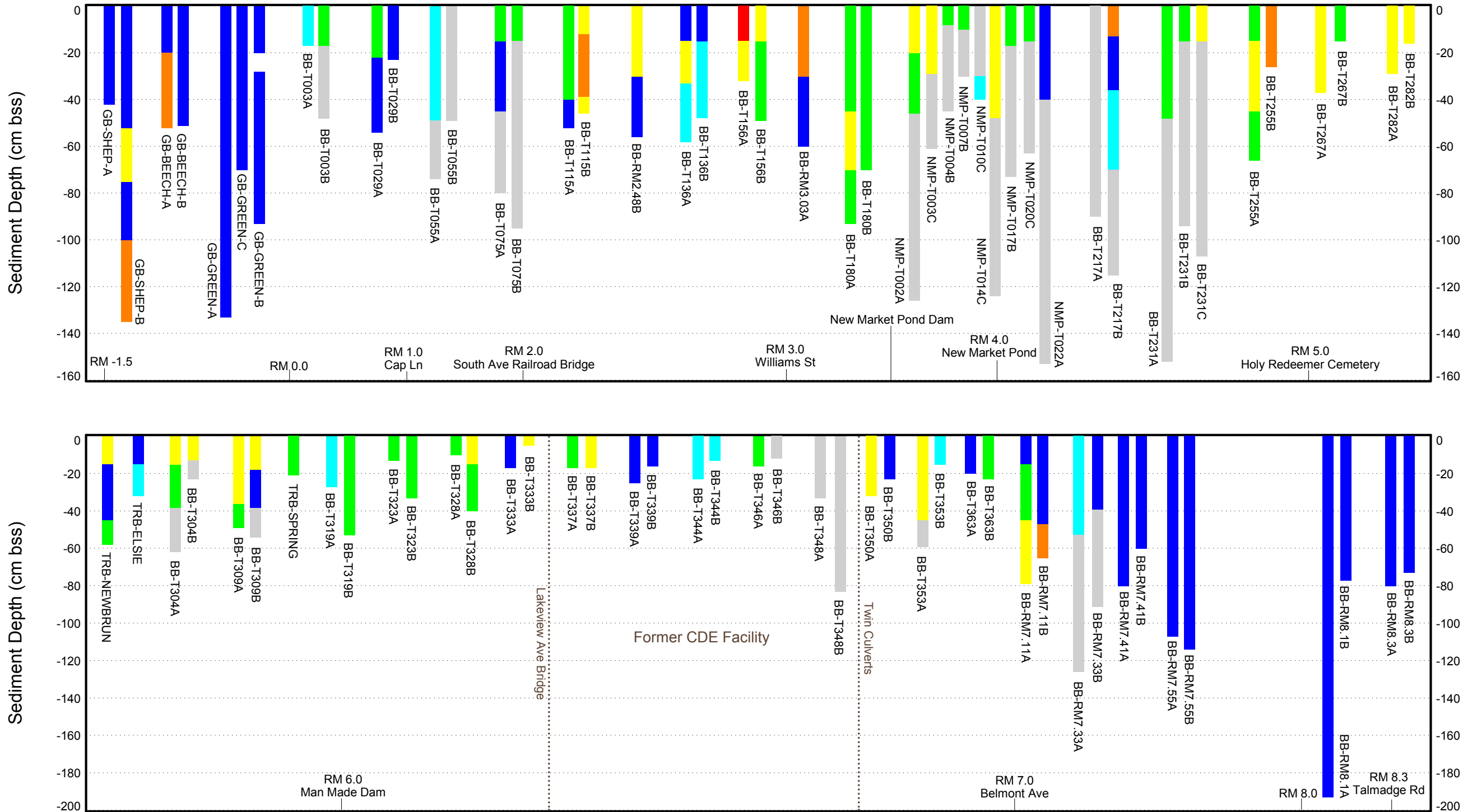
Cornell-Dubilier Electronics Superfund Site OU4 Bound Brook Low Resolution Sediment Cores DATA EVALUATION AND ANALYSIS RI/FS	
CONCENTRATION-DEPTH PROFILE: Lead	
2013	Figure 5-6h





Notes:

1. Non-detected concentrations are incorporated into the presentation as equal to their method detection limit.
2. Rejected concentrations are omitted in the presentation and will be projected as a break in the depth profile.
3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
4. Duplicate samples have been omitted from the presentation.
5. For transect BB-T231, A-core is located on the right bank looking upstream, B-core in the middle of the channel, and the C-core on the left bank looking upstream. For transect GB-GREEN, the A-core and B-core were initially collected equally spaced across the brook. The C-core was subsequently collected from the middle of the channel to further characterize the transect. In New Market Pond, sediment cores were co-located with the 2010 sediment probing points. Core designations correspond to the sediment probing sample identification letter, where the A-probing location was on the right bank looking upstream, the B-probing location was in the middle of the pond, and the C-probing location was on the left bank looking upstream.



Notes:

1. Non-detected concentrations are incorporated into the presentation as equal to their method detection limit.
2. Rejected concentrations are omitted in the presentation and will be projected as a break in the depth profile.
3. Cores labeled with an A are located at the South Bank. Cores labeled with a B are located at the North Bank.
4. Duplicate samples have been omitted from the presentation.
5. For transect BB-T231, A-core is located on the right bank looking upstream, B-core in the middle of the channel, and the C-core on the left bank looking upstream. For transect GB-GREEN, the A-core and B-core were initially collected equally spaced across the brook. The C-core was subsequently collected from the middle of the channel to further characterize the transect. In New Market Pond, sediment cores were co-located with the 2010 sediment probing points. Core designations correspond to the sediment probing sample identification letter, where the A-probing location was on the right bank looking upstream, the B-probing location was in the middle of the pond, and the C-probing location was on the left bank looking upstream.

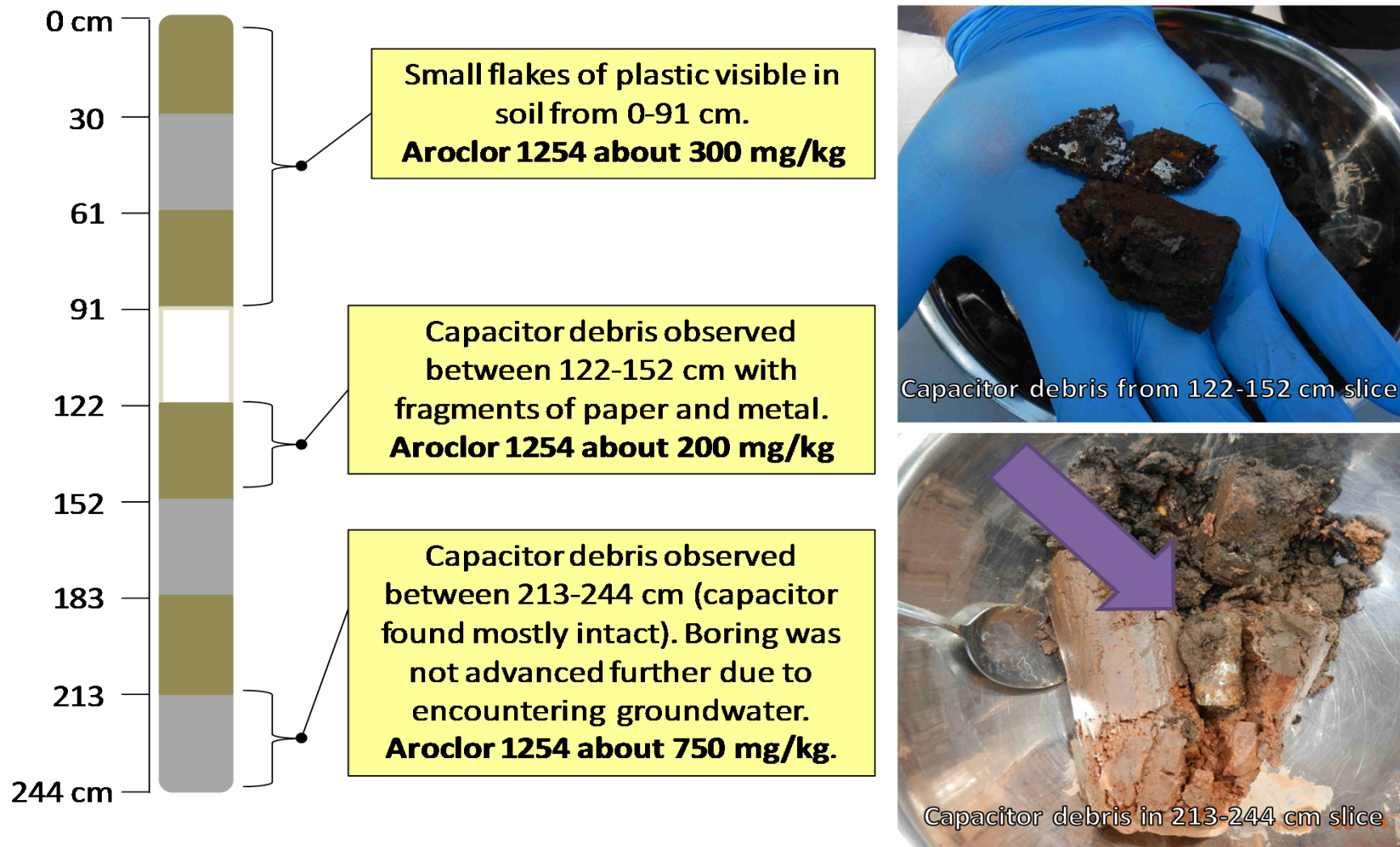


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Deep Soil Borings in Areas of Potential Buried Debris
 Bound Brook OU4 RI/FS

2013
 Figure 5-7



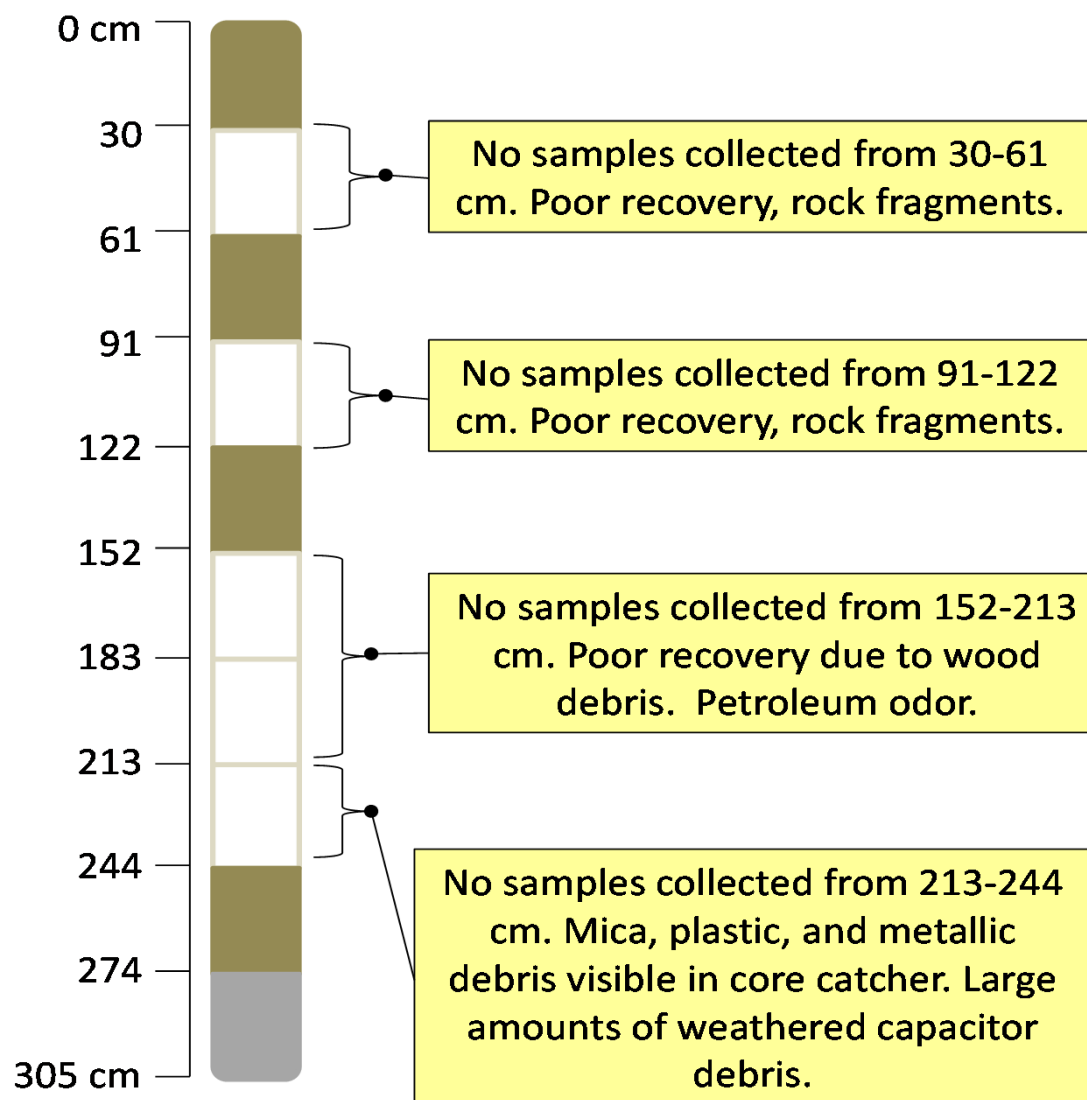
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South Plainfield, NJ

Schematic of Deep Soil Boring "C" Collected via
Split Spoon
Bould Brook DN4 RI/FS

2013

FIGURE 5-8

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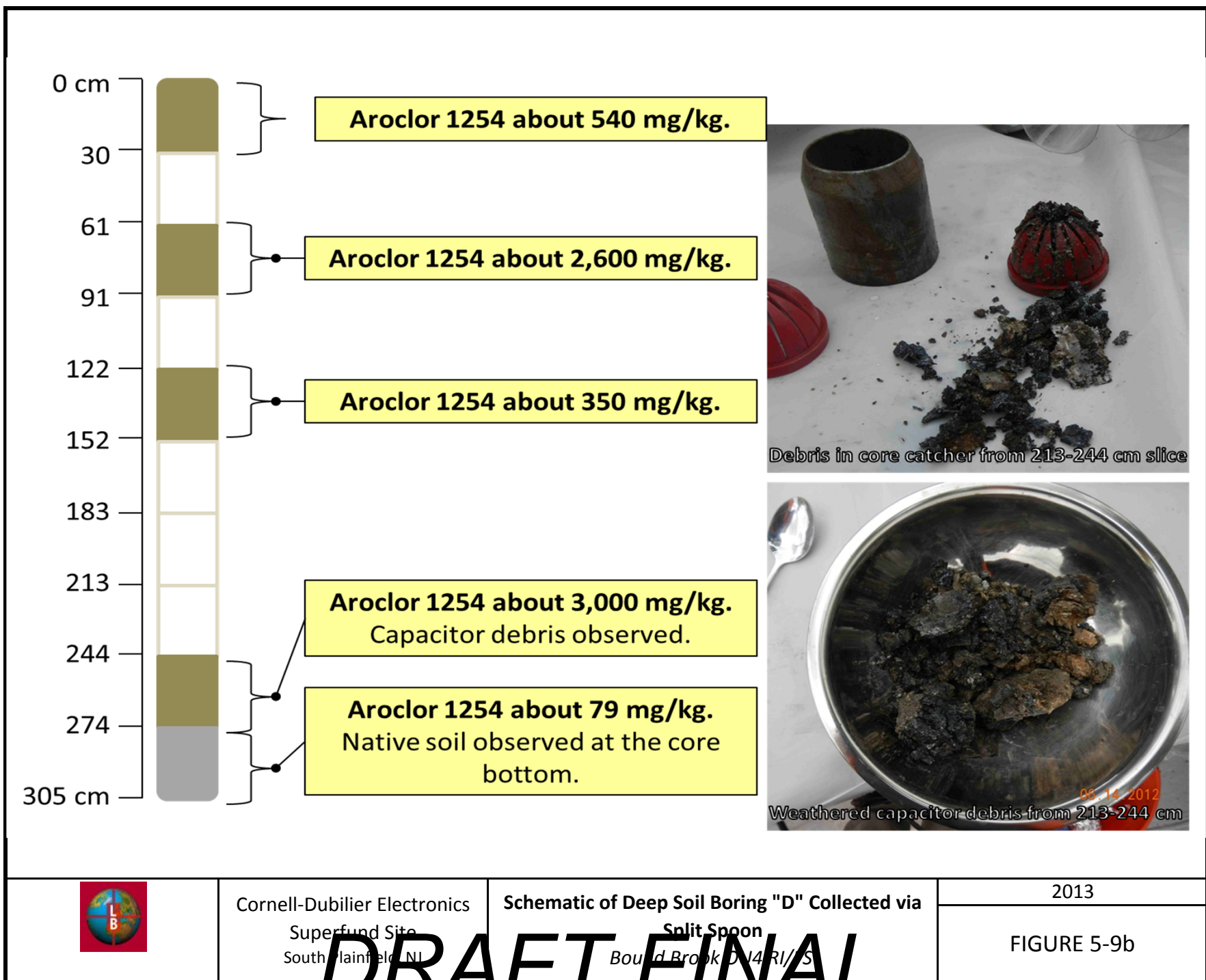
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South Plainfield, NJ

Schematic of Deep Soil Boring "D" Collected via
Split Spoon
Bould Brook DN4 RI/FS

2013

FIGURE 5-9a

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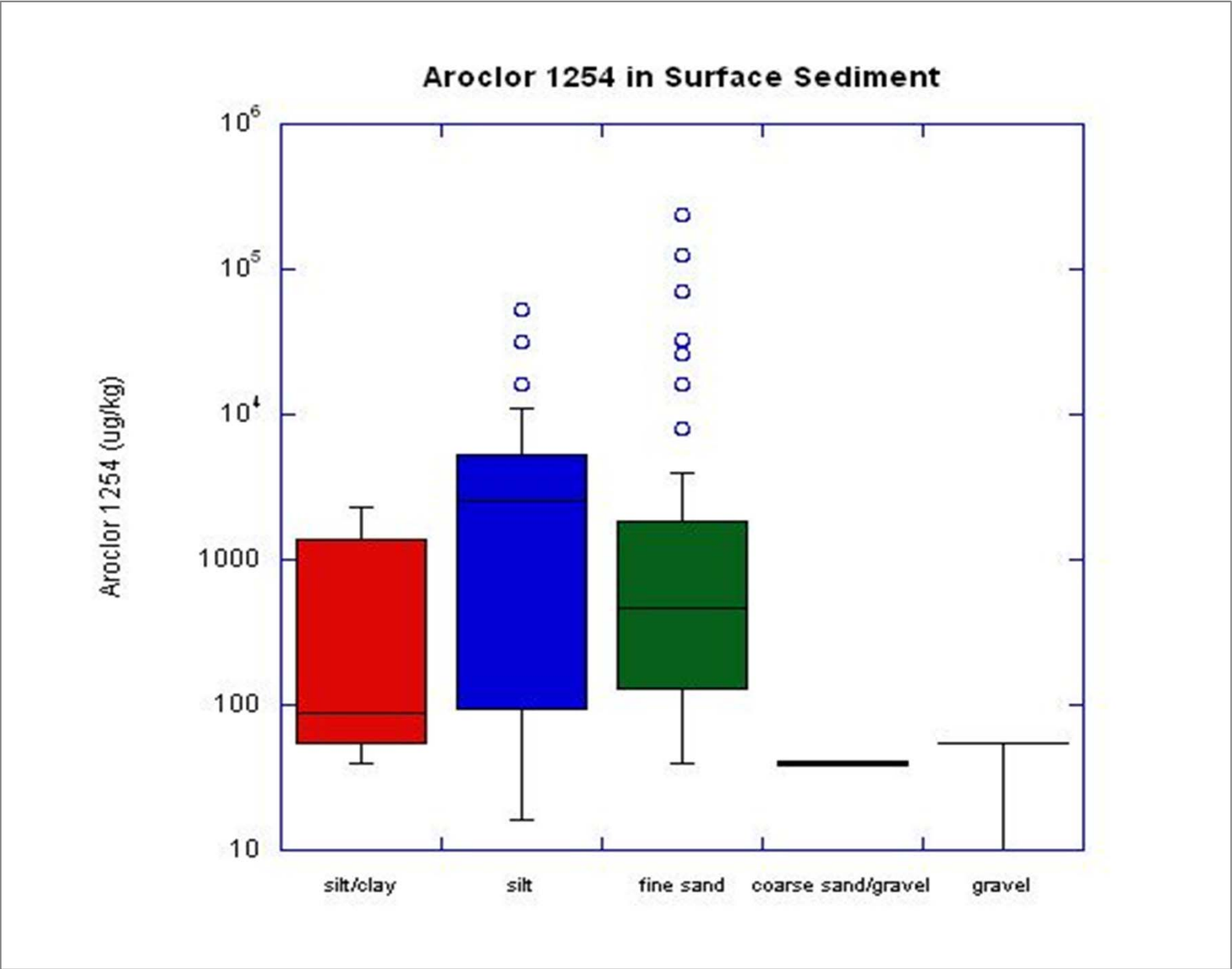
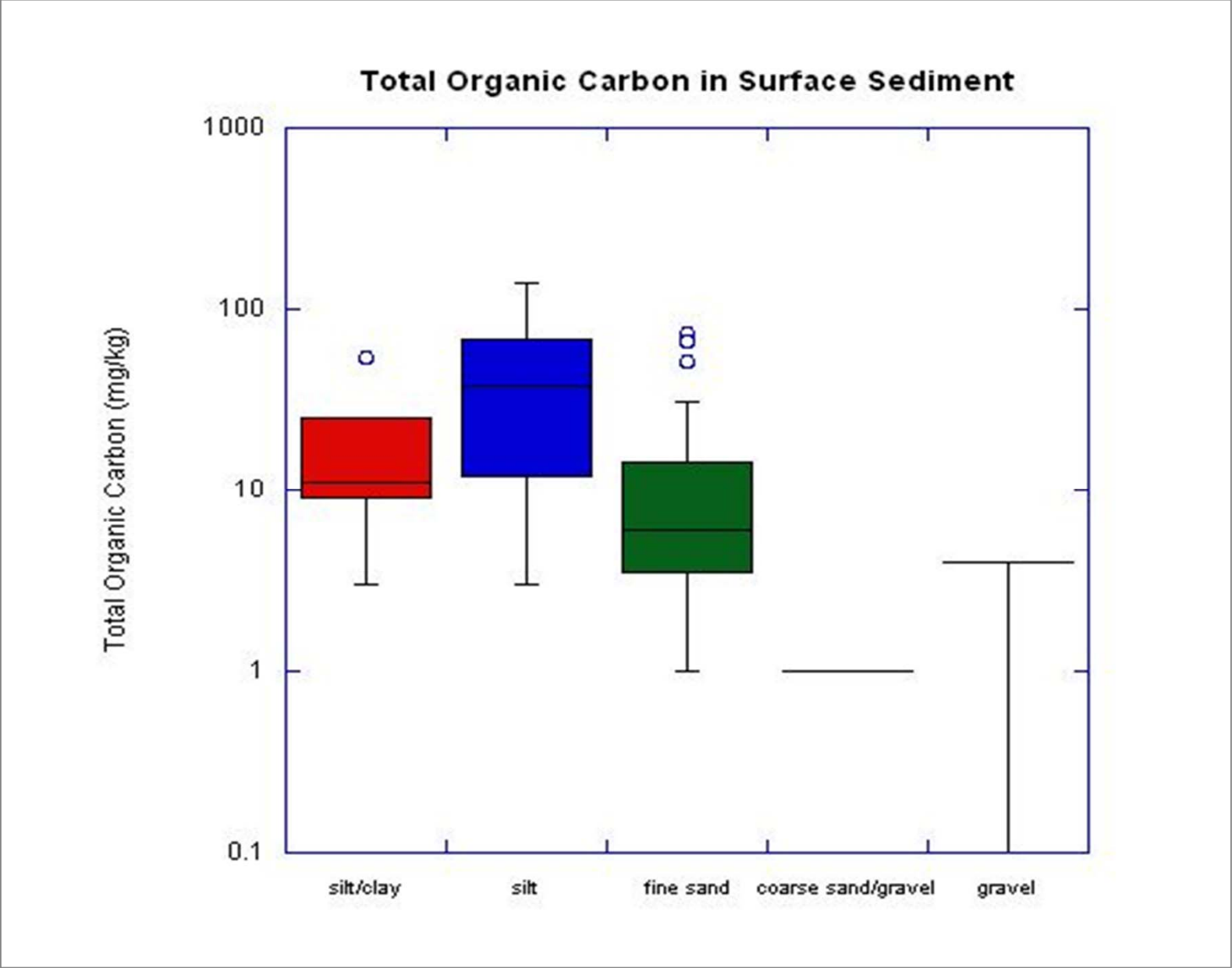
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Schematic of Deep Soil Boring "D" Collected via
Split Spoon
Bould Brook DN4 RI/FS

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FIGURE 5-9b

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LEGEND:

- Outlier as define by JMP statistical software.

Data Maximum →

Data Median →

Data Minimum →

75th percentile

Upper quartile

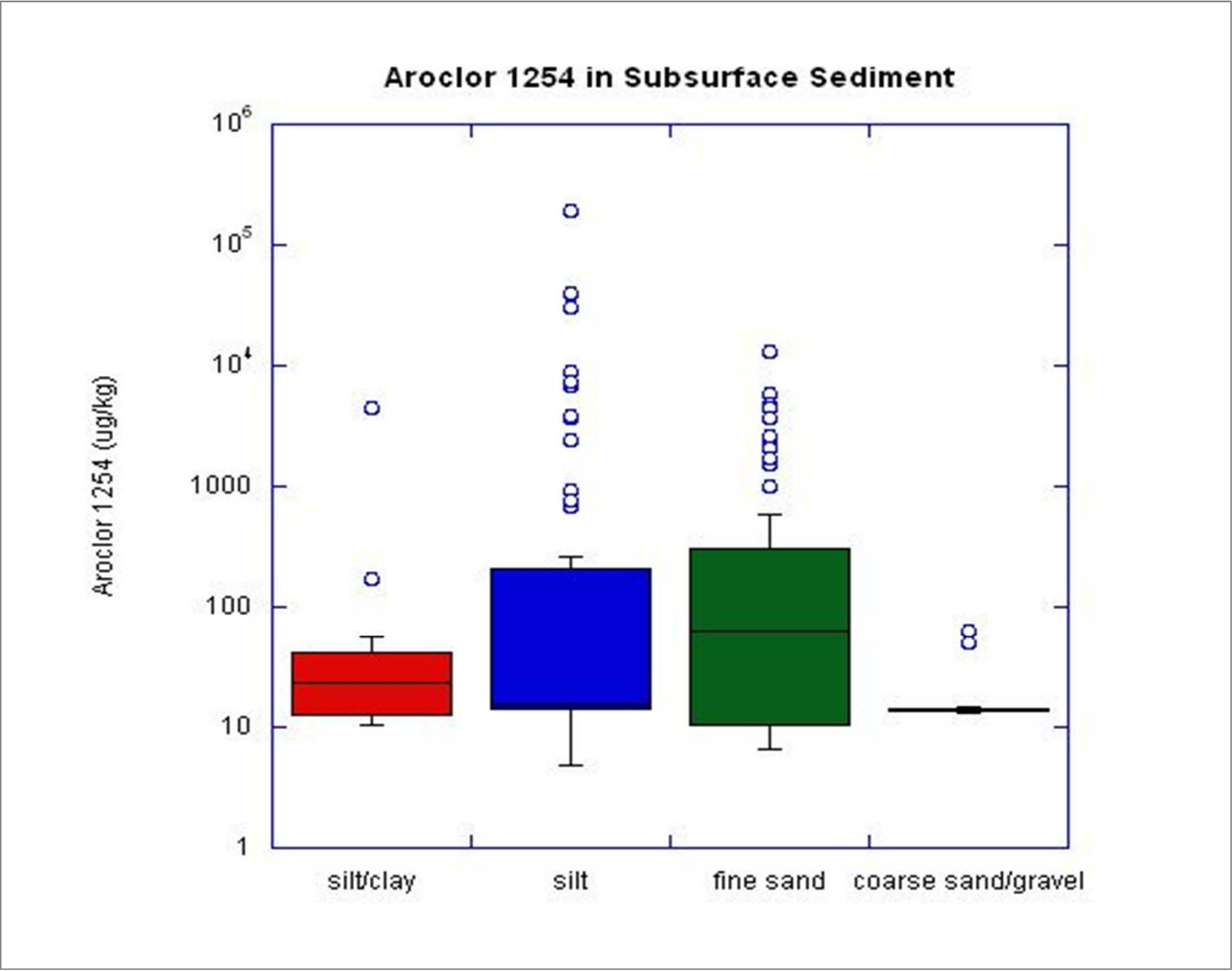
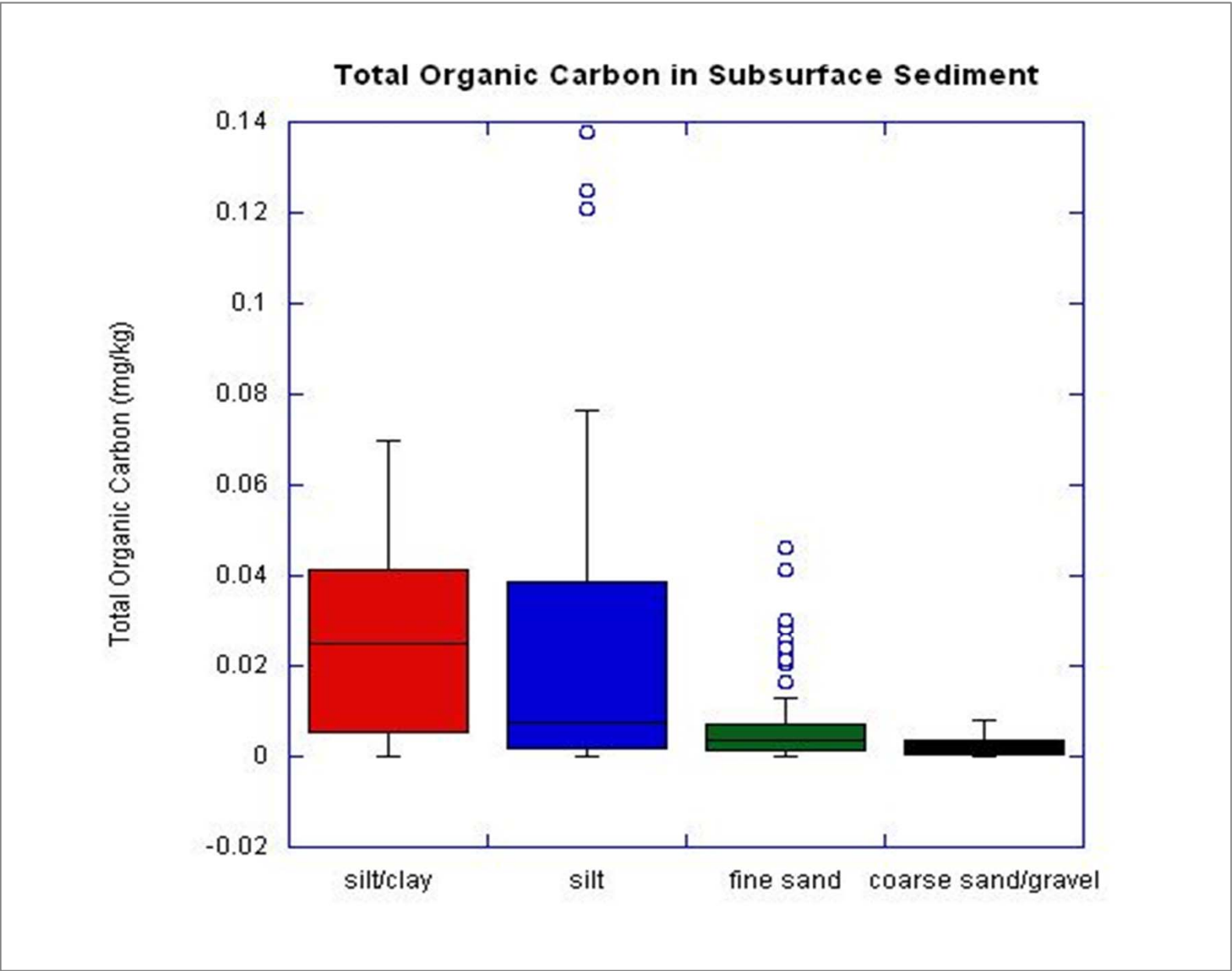
Lower quartile

25th percentile

NOTES:

- 1. Nondetected concentrations are presented as half the method detection limit.
- 2. Sediment samples were geologically classified in the field according to the United Soil Classification System.
- 3. Sediment samples represent low resolution core intervals collected in 2011. Surface sediment samples represent an average of the top 17 cm of sediments.

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LEGEND:

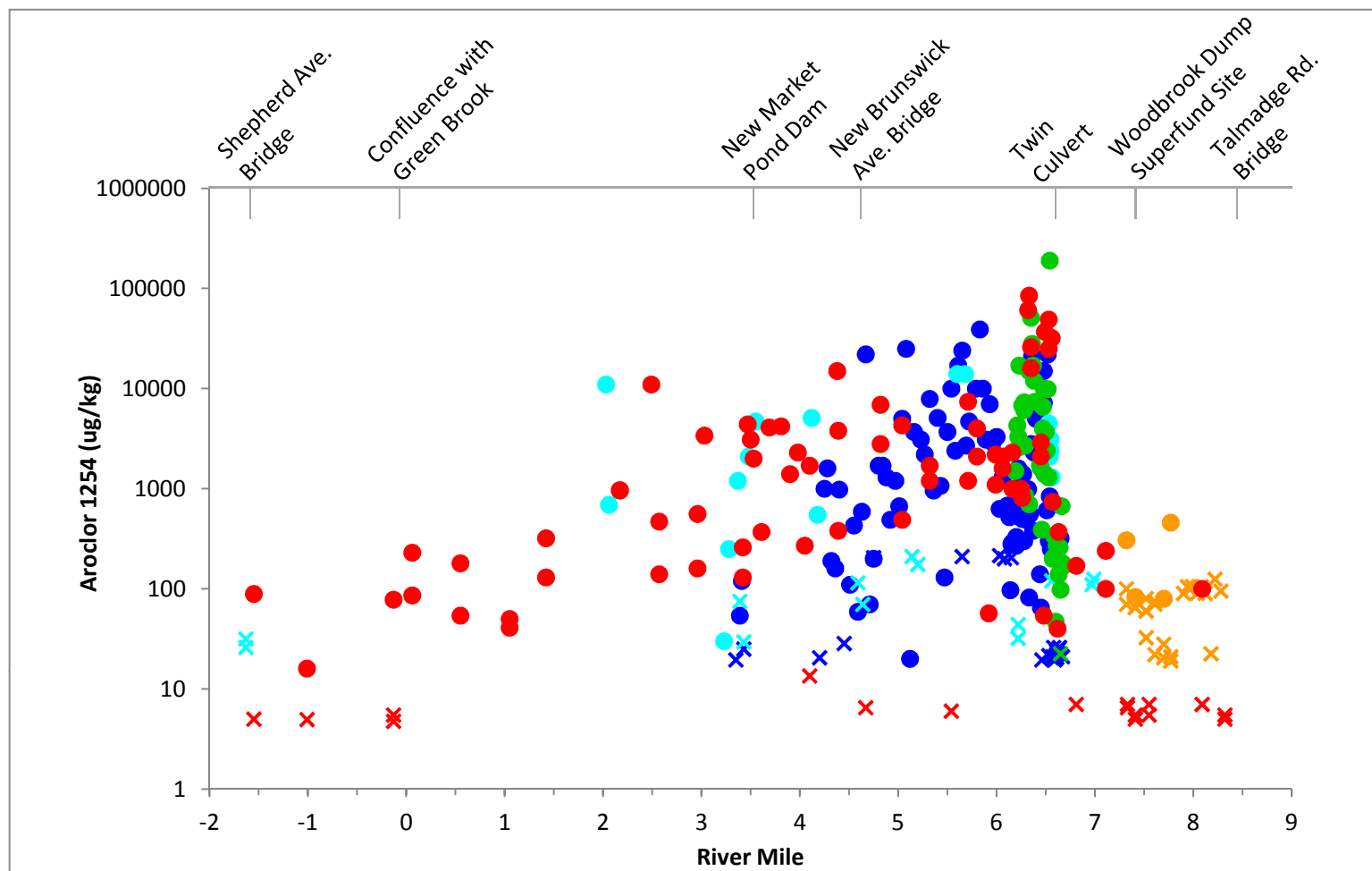
- Outlier as define by JMP statistical software.

Diagram labels:
Data Maximum →
Data Median →
Data Minimum →
75th percentile
Upper quartile
Lower quartile
25th percentile

NOTES:

- 1. Nondetected concentrations are presented as half the method detection limit.
- 2. Sediment samples were geologically classified in the field according to the United Soil Classification System.
- 3. Sediment samples represent low resolution core intervals collected in 2011. Subsurface sediment samples represent intervals collected below an average depth of 17 cm to the core bottom.

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 2007-2008 Historical Core Tops (Collected by USEPA)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- 1997 Historical Core Tops (Collected by Weston)
- ✕ Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Core Tops (Weston) Data: 1998 Weston Soil Sediment Summary Report.
4. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
5. 2007-08 Historical Core Tops Data: 2007-08 USEPA OU4 Sediment Sampling Report.
6. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
7. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



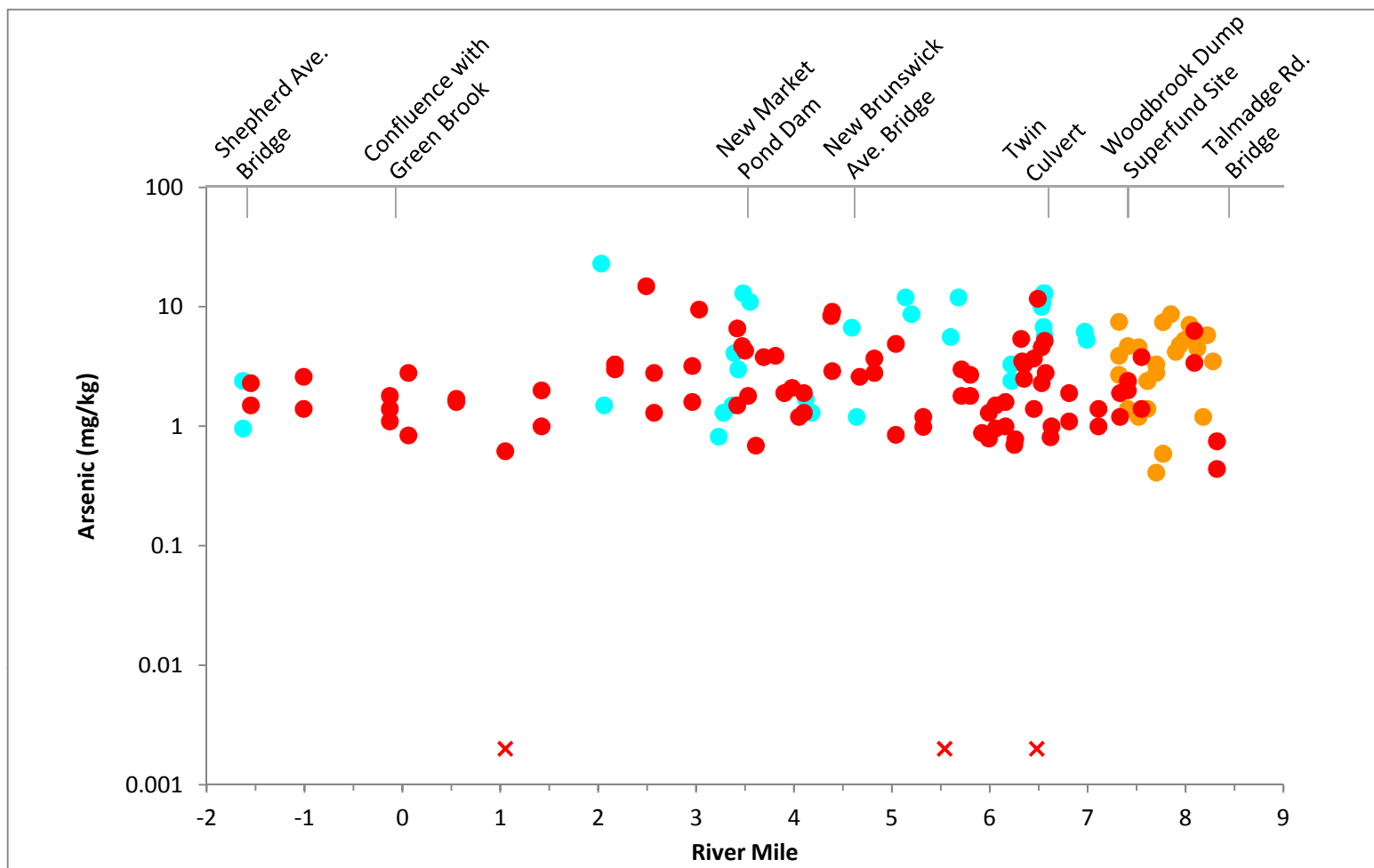
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South Plainfield, NJ

Aroclor 1254 Surface Sediment Concentration
from 1997 - 2011
Bound Brook, NJ RI/FS

2013

FIGURE 5-12a

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Arsenic Surface Sediment Concentration

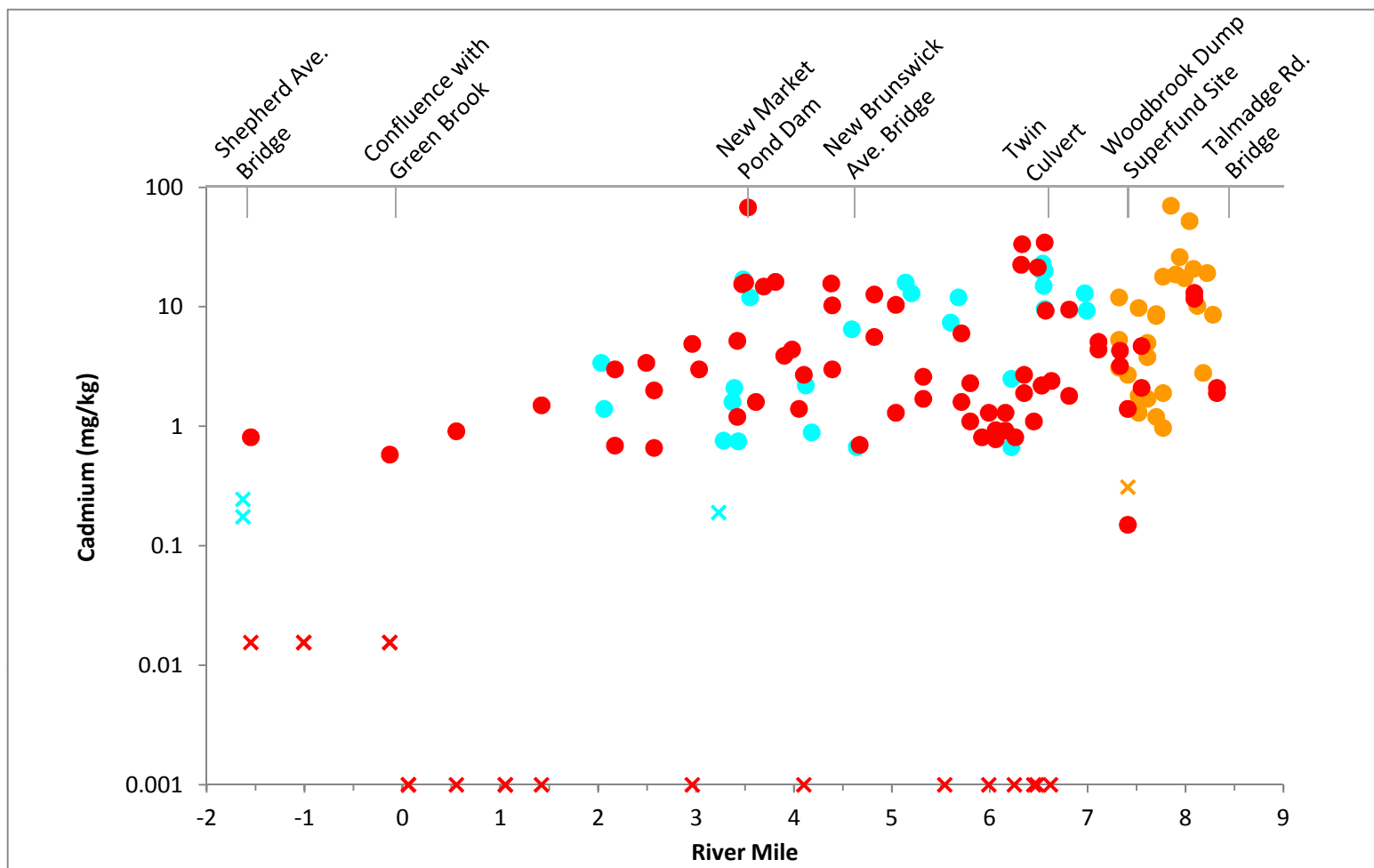
from 1997 - 2011

Bound Brook DN4 RI/US

2013

FIGURE 5-12b

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Cadmium Surface Sediment Concentration

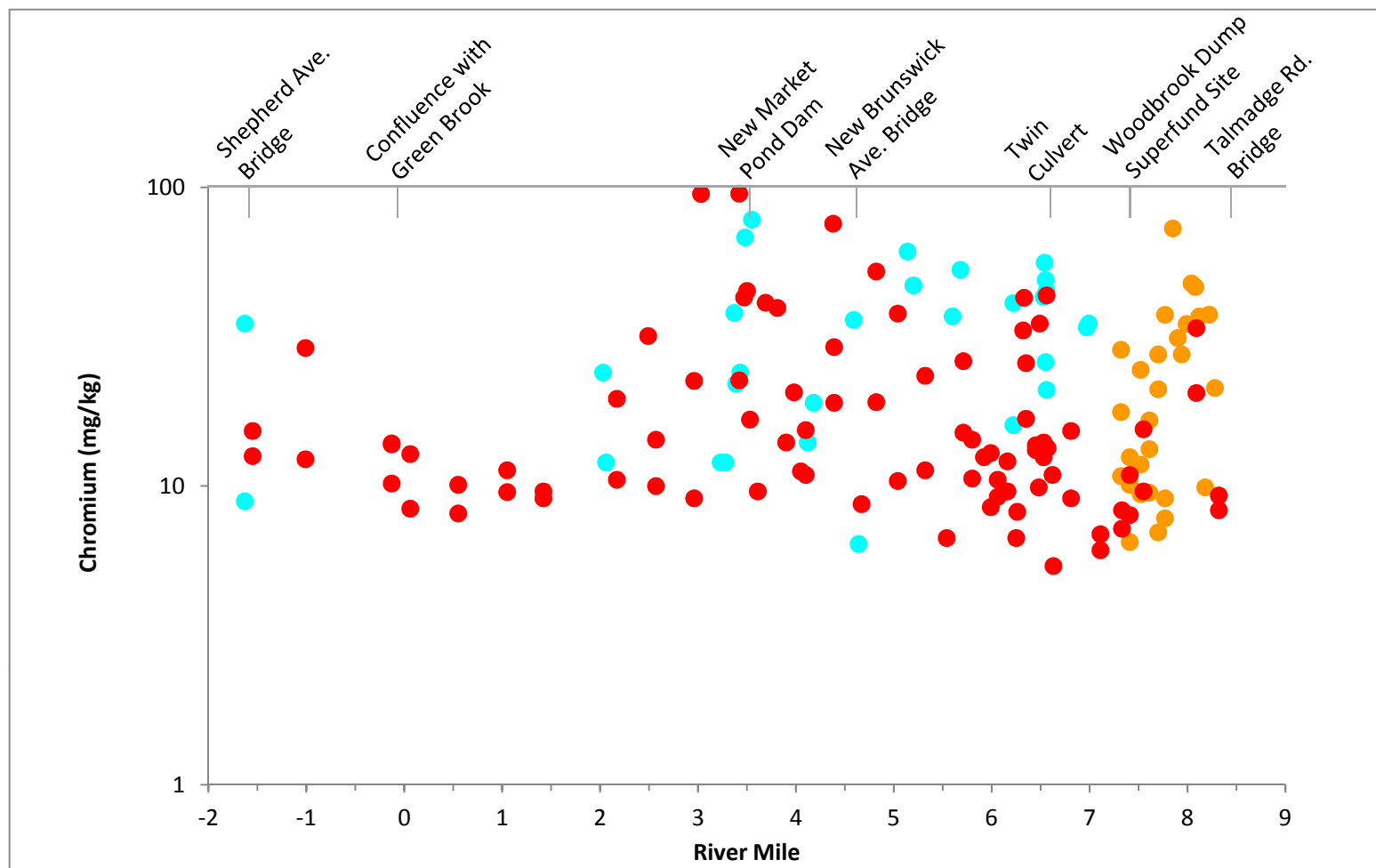
from 1997 - 2011

Bound Brook DN4 RI/US

2013

FIGURE 5-12c

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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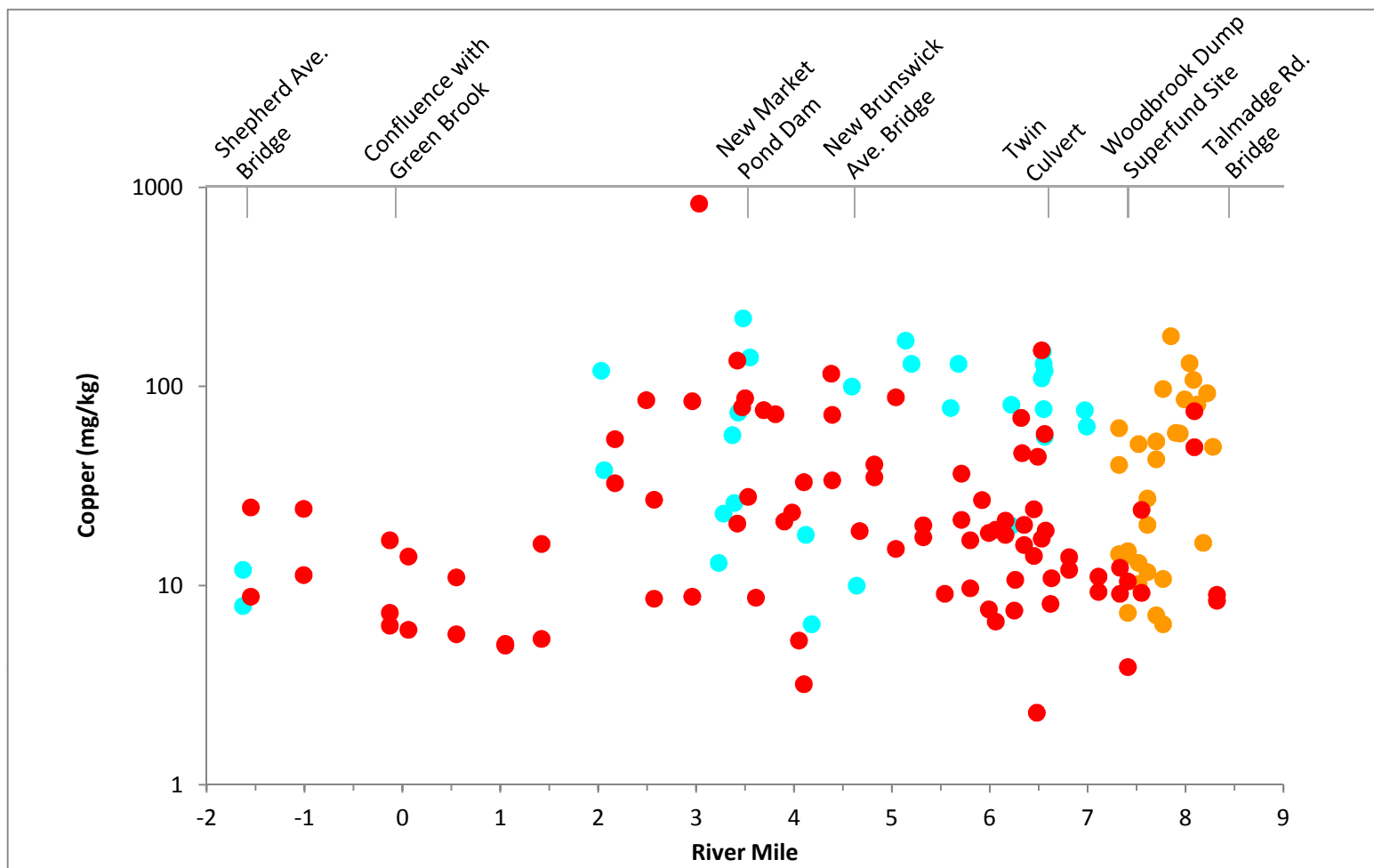
Chromium Surface Sediment Concentration

from 1997 - 2011
Bound Brook, NJ RI/FS

2013

FIGURE 5-12d

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LEGEND: ● 2011 Remedial Investigation Core Tops (Collected by LBG)
 ● 2007 Historical Woodbrook Core Tops (Collected by TRC)
 ● 1997 Historical Surface Sediment Grabs (Collected by USEPA)
 X Nondetected Samples

NOTES:
 1. For samples with field duplicates, the average concentration is presented.
 2. Nondetected concentrations are presented as half the method detection limit.
 3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
 4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
 5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.

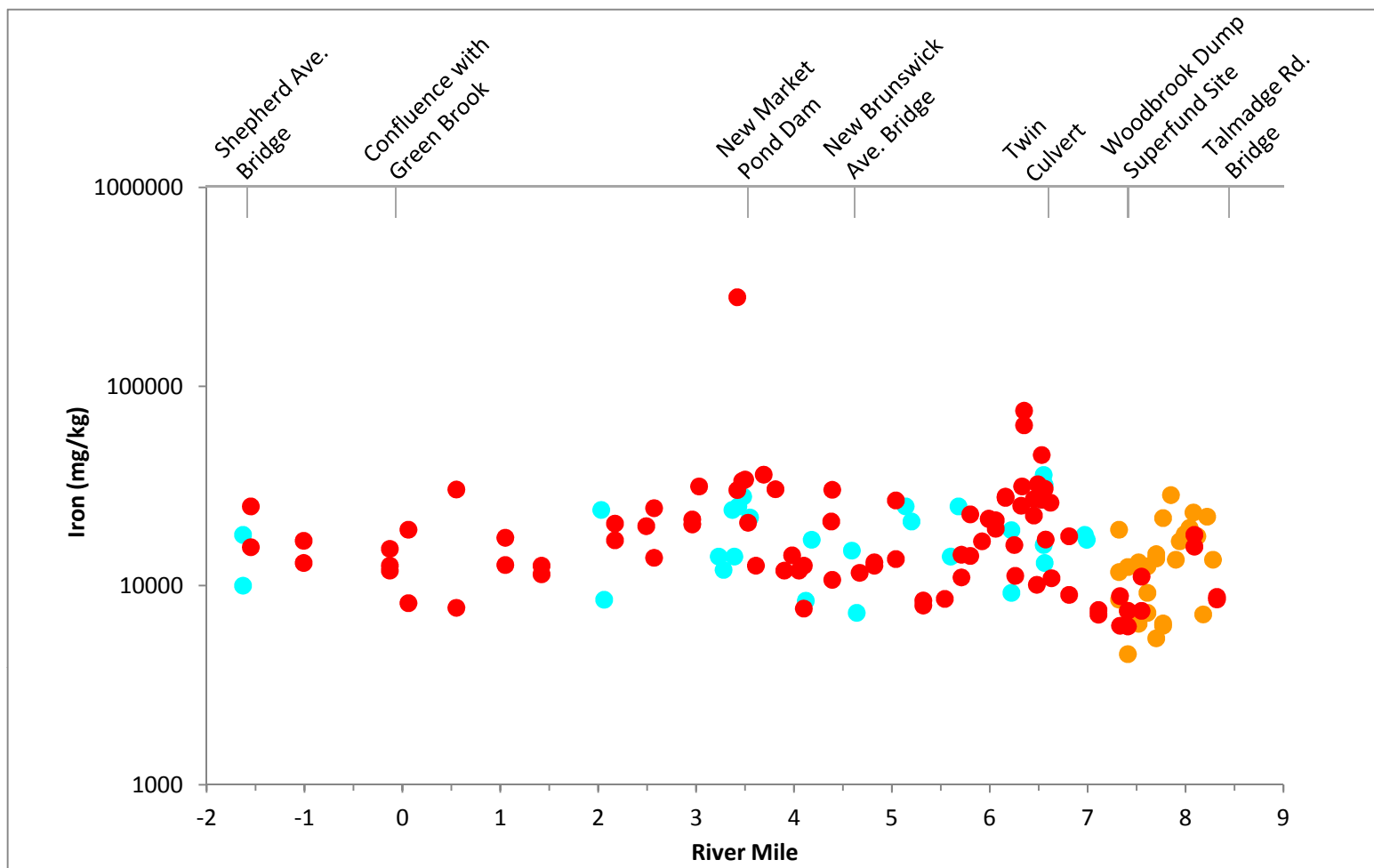


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Copper Surface Sediment Concentration
 from 1997 - 2011
 Bound Brook, NJ

2013
 FIGURE 5-12e

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LEGEND: ● 2011 Remedial Investigation Core Tops (Collected by LBG)
 ● 2007 Historical Woodbrook Core Tops (Collected by TRC)
 ● 1997 Historical Surface Sediment Grabs (Collected by USEPA)
 X Nondetected Samples

NOTES:
 1. For samples with field duplicates, the average concentration is presented.
 2. Nondetected concentrations are presented as half the method detection limit.
 3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
 4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
 5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



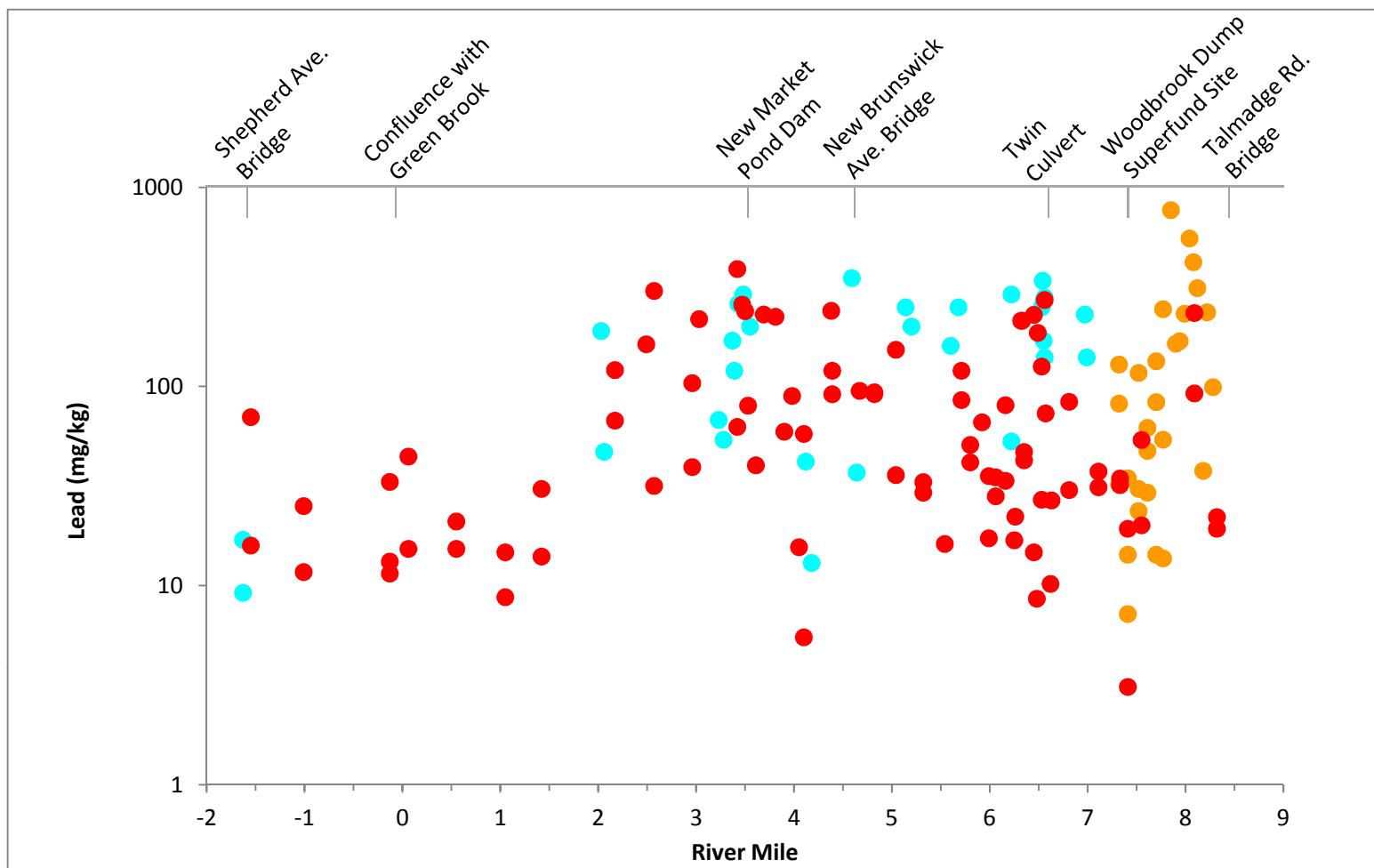
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 South Plainfield, NJ

Iron Surface Sediment Concentration
 from 1997 - 2011
 Bound Brook, NJ RI/FS

2013

FIGURE 5-12f

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Lead Surface Sediment Concentration

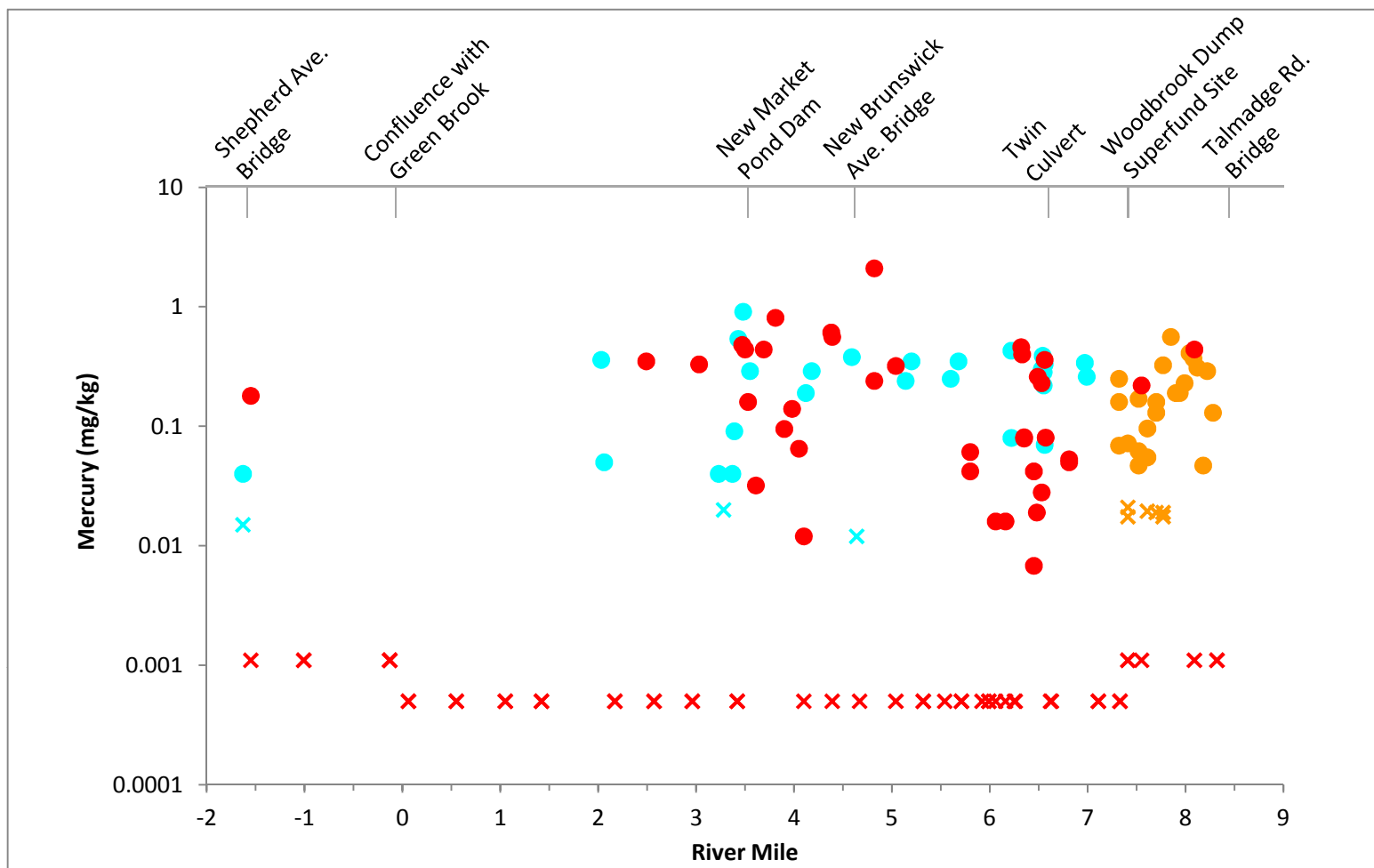
from 1997 - 2011

Bound Brook, NJ 07001

2013

FIGURE 5-12g

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LEGEND: ● 2011 Remedial Investigation Core Tops (Collected by LBG)
 ● 2007 Historical Woodbrook Core Tops (Collected by TRC)
 ● 1997 Historical Surface Sediment Grabs (Collected by USEPA)
 X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Mercury Surface Sediment Concentration

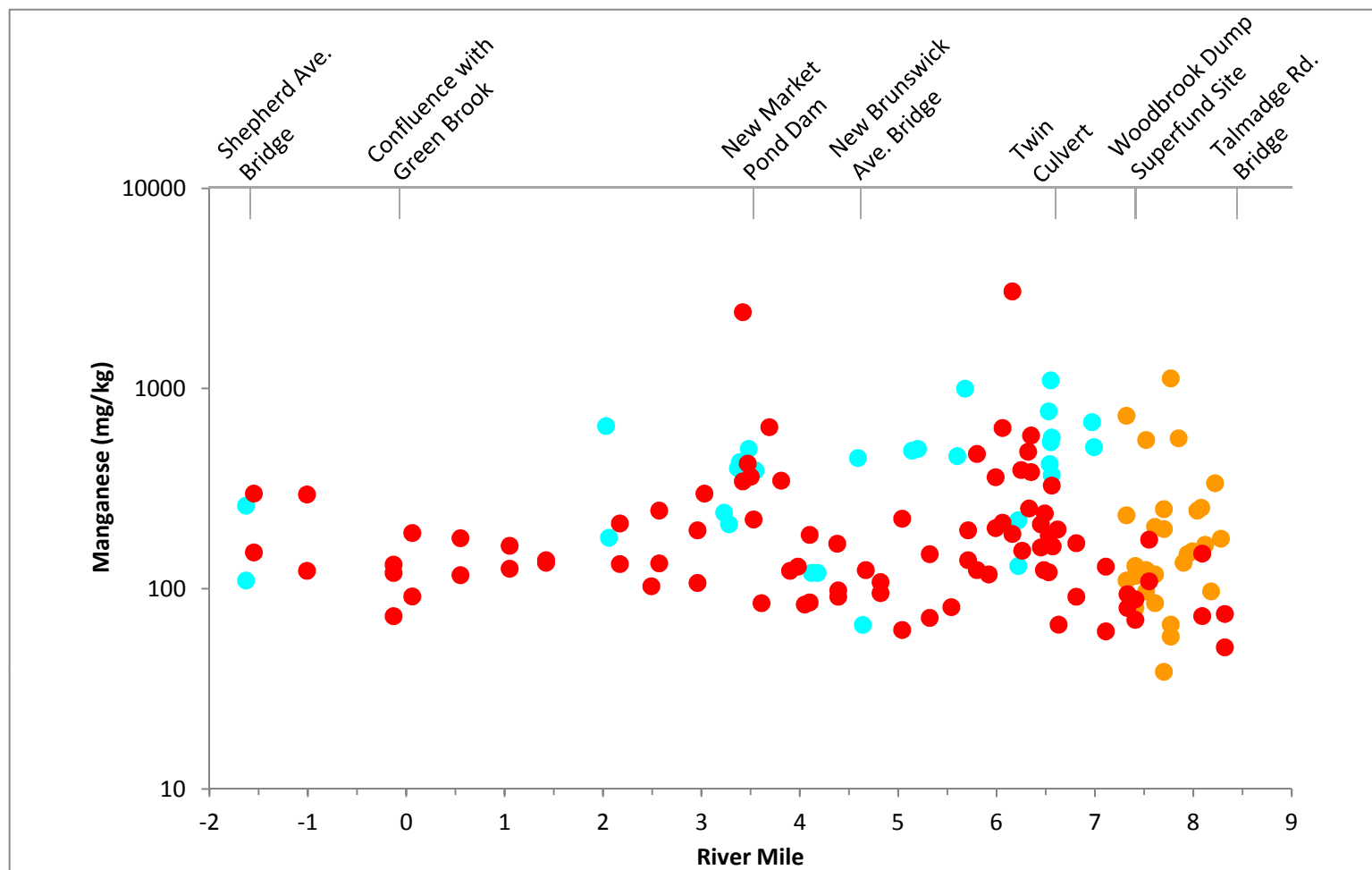
from 1997 - 2011

Bound Brook DN4 RI/US

2013

FIGURE 5-12h

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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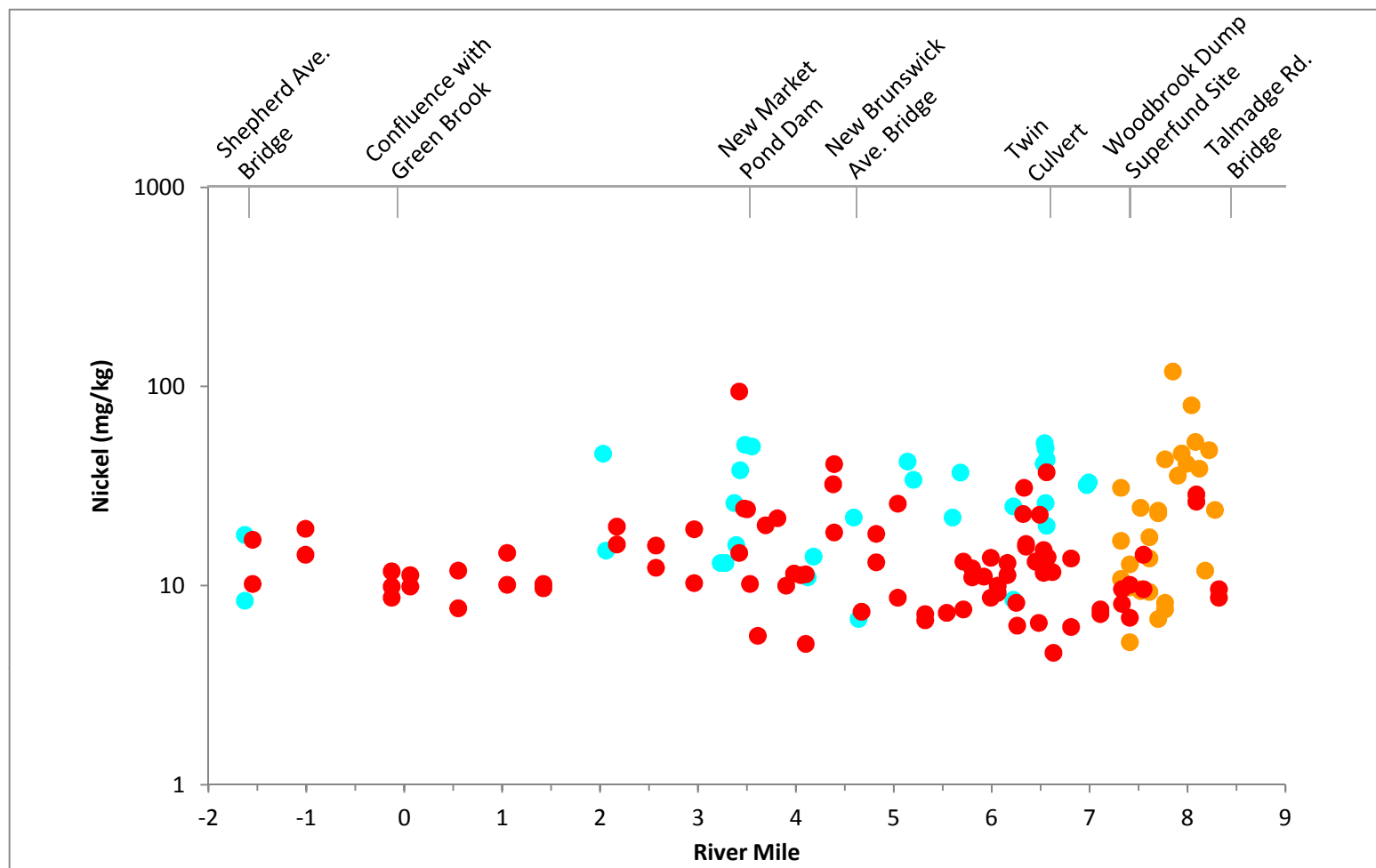
Manganese Surface Sediment Concentration

from 1997 - 2011
Bound Brook, NJ RI/FS

2013

FIGURE 5-12i

DRAFT FINAL



LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Nickel Surface Sediment Concentration

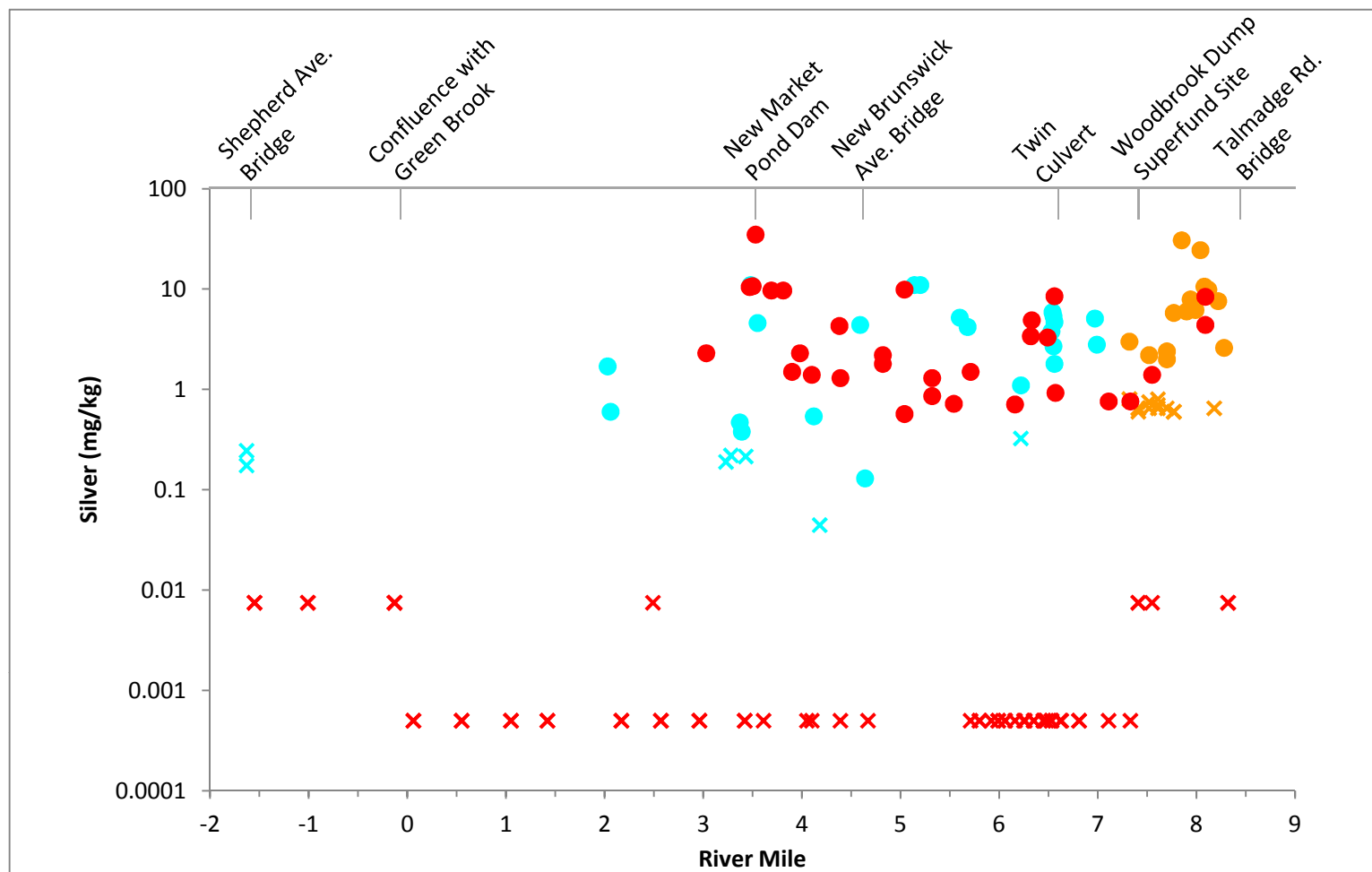
from 1997 - 2011

Bound Brook DN4 RI/US

2013

FIGURE 5-12j

DRAFT FINAL



LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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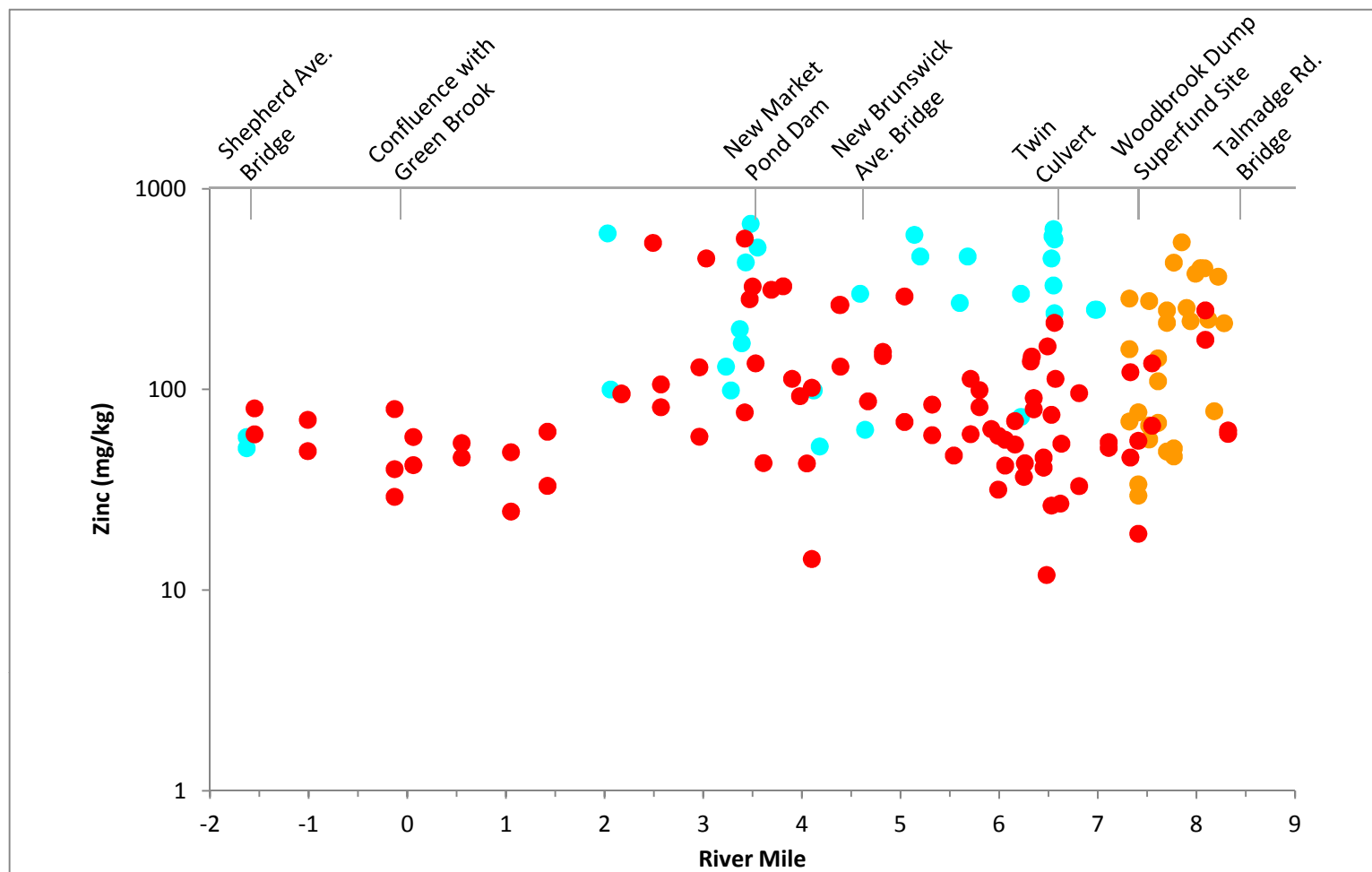
Silver Surface Sediment Concentration

from 1997 - 2011
Bound Brook, NJ RI/FS

2013

FIGURE 5-12k

DRAFT FINAL



LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Zinc Surface Sediment Concentration

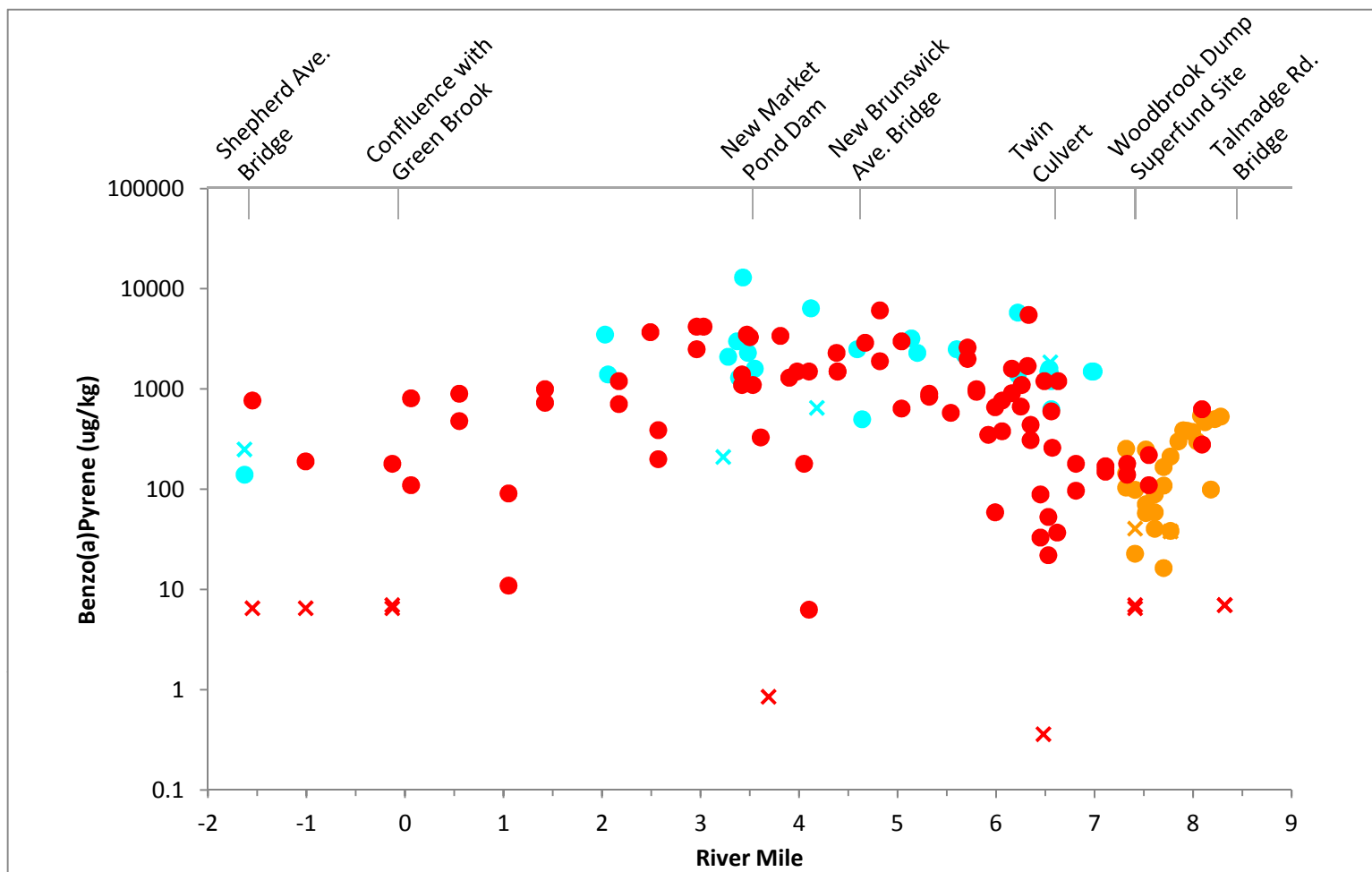
from 1997 - 2011

Bound Brook, NJ 4 RI/US

2013

FIGURE 5-12I

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



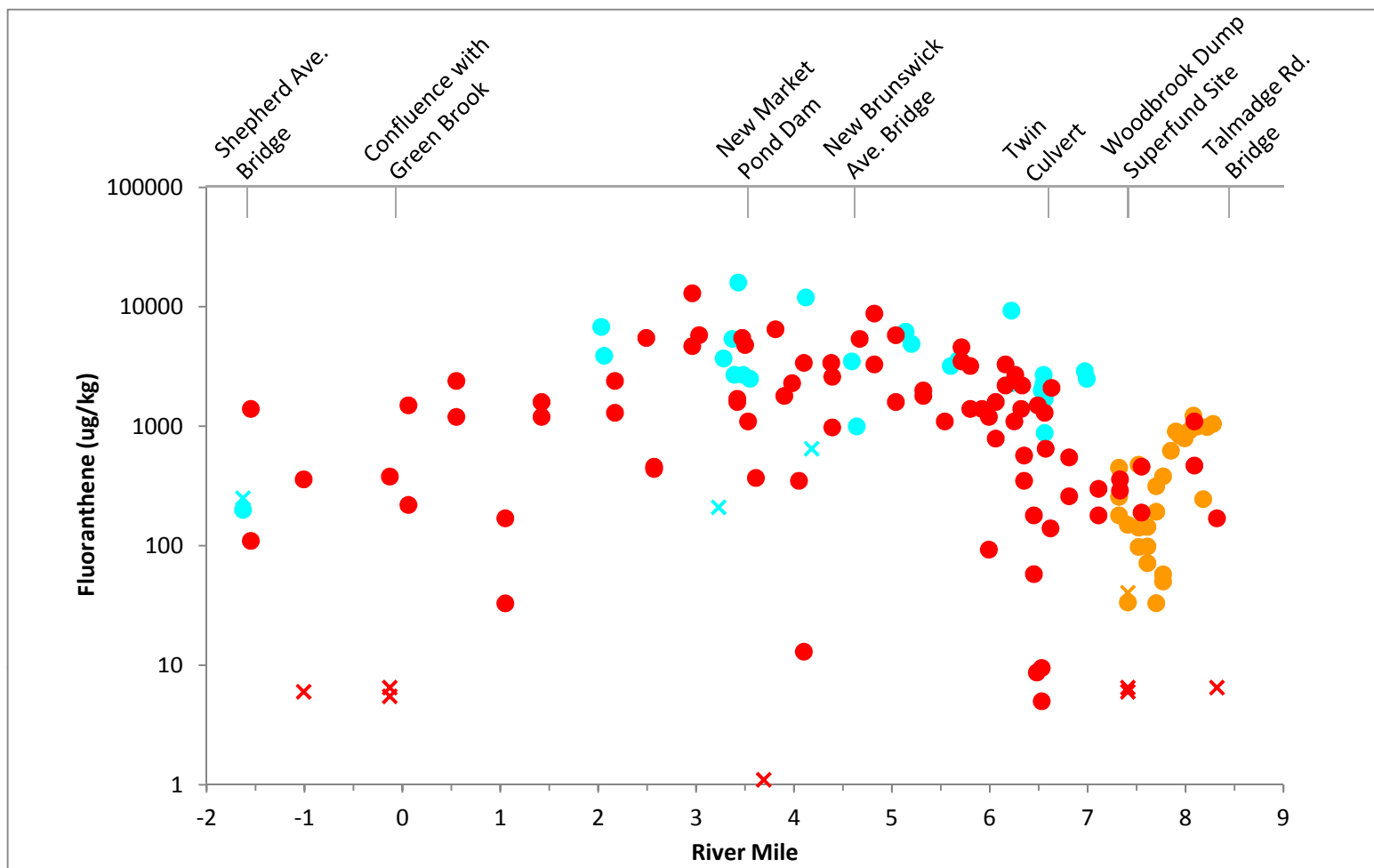
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Superfund Site
South Plainfield, NJ

Benzo(a)Pyrene Surface Sediment Concentration
from 1997 - 2011
Bound Brook, NJ / RI / S

2013

FIGURE 5-12m

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



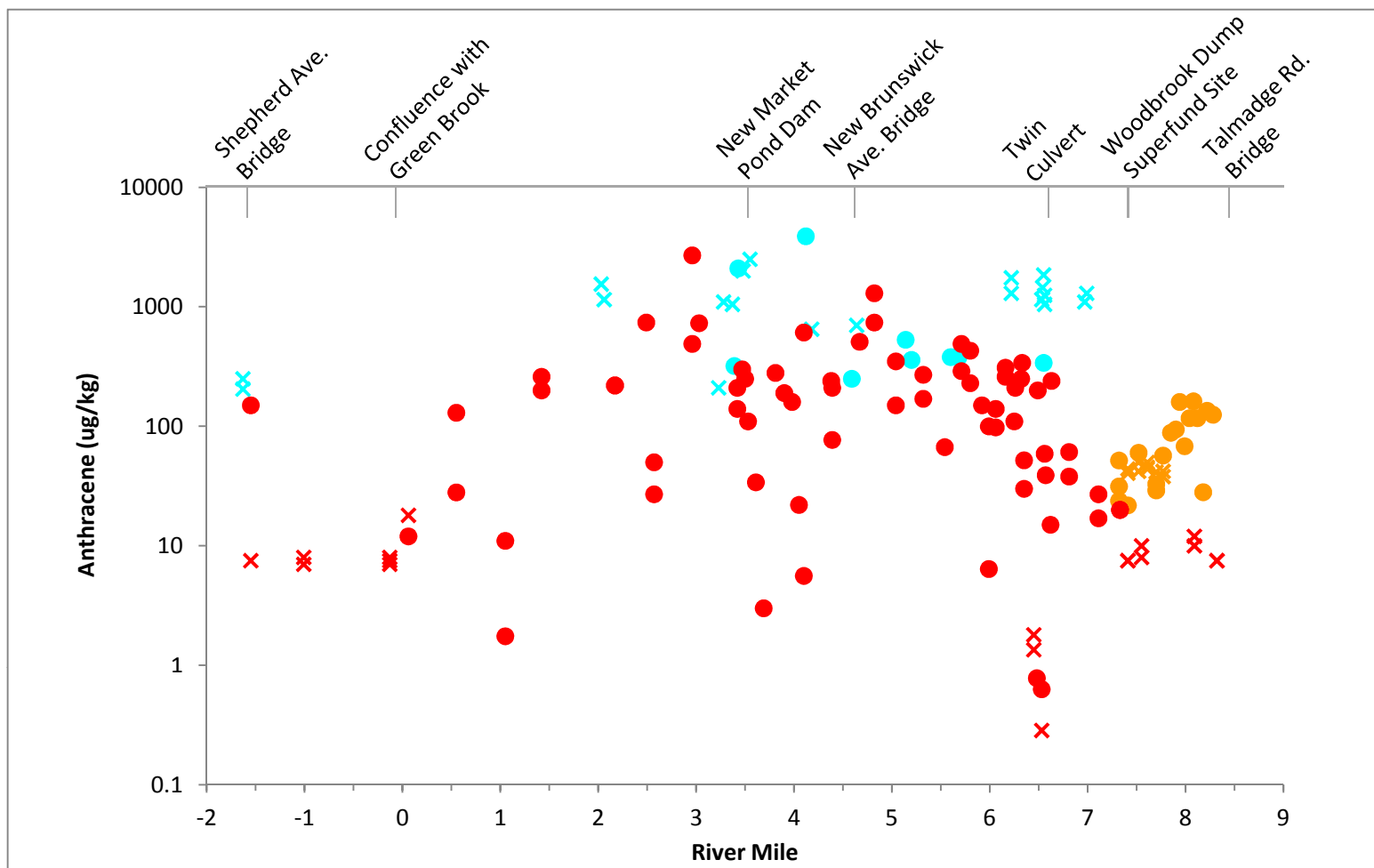
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South Plainfield, NJ

Fluoranthene Surface Sediment Concentration
from 1997 - 2011
Bound Brook, NJ

2013

FIGURE 5-12n

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



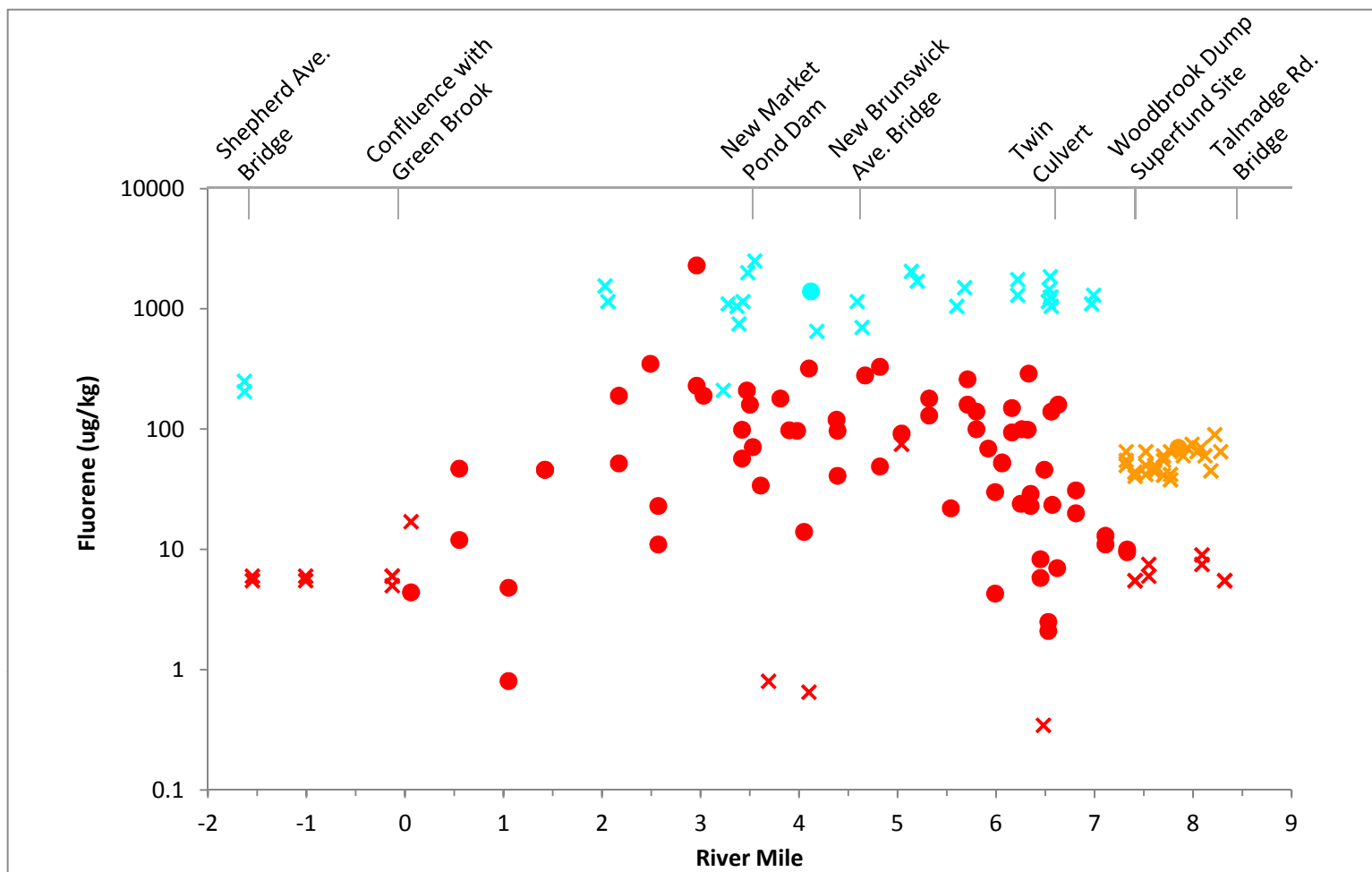
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South Plainfield, NJ

Anthracene Surface Sediment Concentration
from 1997 - 2011
Bould Brook DN4 RI/FS

2013

FIGURE 5-12o

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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Fluorene Surface Sediment Concentration

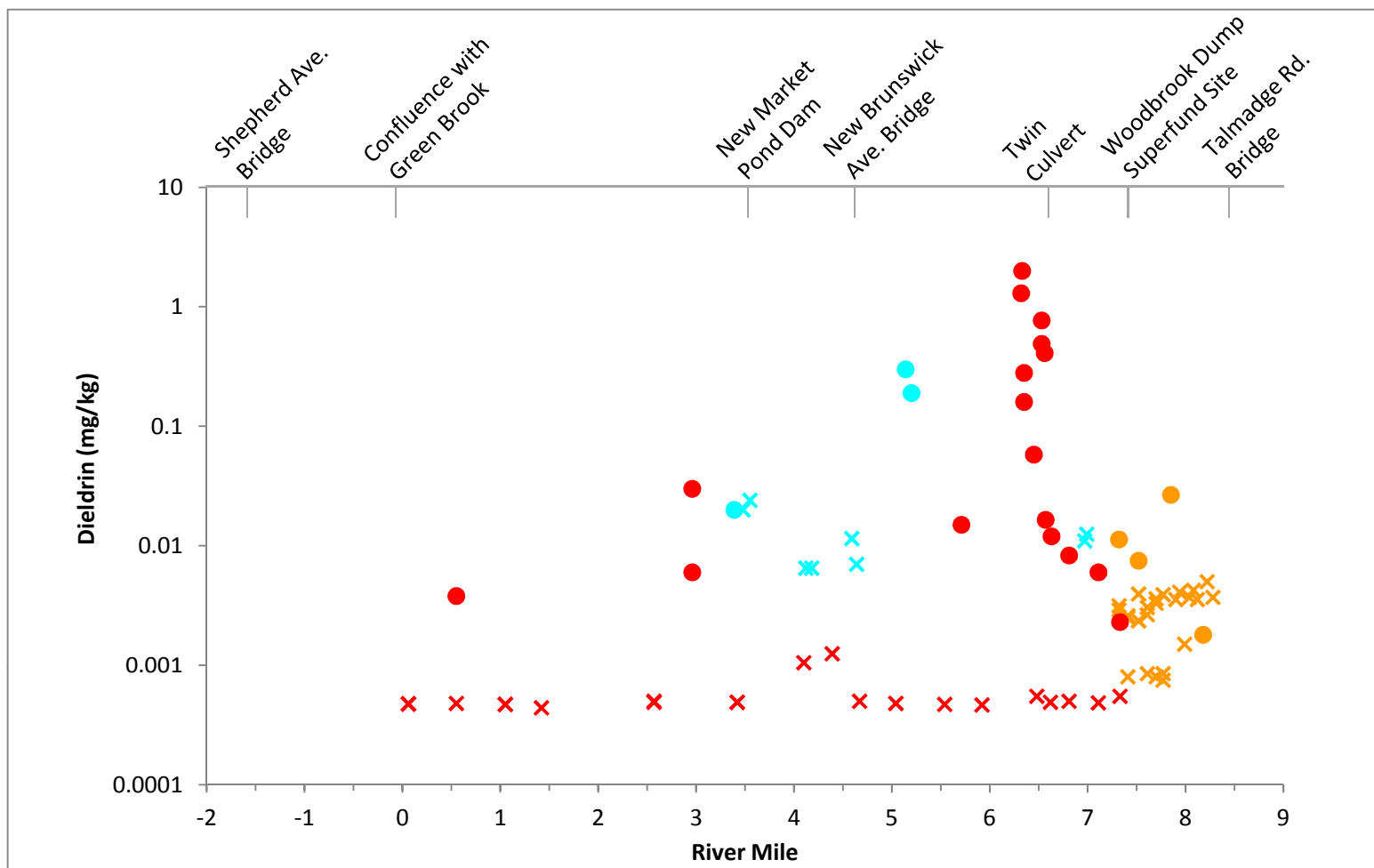
from 1997 - 2011

Bound Brook, NJ

2013

FIGURE 5-12p

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LEGEND:

- 2011 Remedial Investigation Core Tops (Collected by LBG)
- 2007 Historical Woodbrook Core Tops (Collected by TRC)
- 1997 Historical Surface Sediment Grabs (Collected by USEPA)
- X Nondetected Samples

NOTES:

1. For samples with field duplicates, the average concentration is presented.
2. Nondetected concentrations are presented as half the method detection limit.
3. 1997 Historical Surface Sediment Grabs (USEPA) Data: 1999 USEPA OU4 Ecological Evaluation Report.
4. 2007 Historical Woodbrook Data: 2007 Woodbrook Summary Report.
5. 2011 Remedial Investigation Data: Louis Berger Group Low Resolution Core results.



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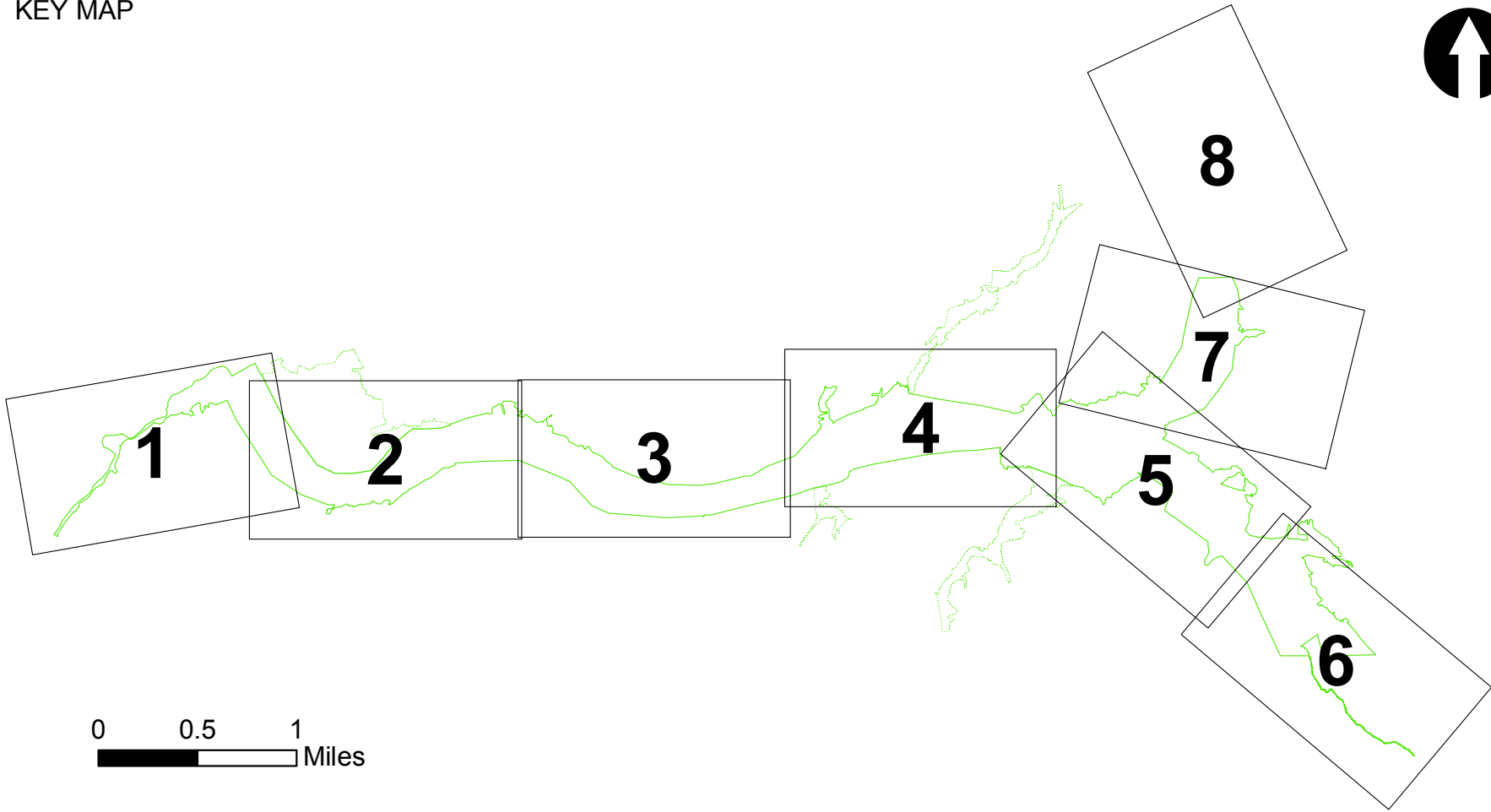
Dieldrin Surface Sediment Concentration
from 1997 - 2011
Bound Brook, NJ / RI / S

2013

FIGURE 5-12q

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KEY MAP



LEGEND

- ⬡

RI Sediment samples collected in 2011 and 2013 (average 0-17 cm)

⬢

Sediment samples collected in 2007 and 2009 (0-15 cm)

⊙

Sediment samples collected in 1999 (0-15 cm)

⬢

Sediment samples collected in June 1999 (0-5 cm)

△

RI Soil samples collected in 2011 and 2013 (< 30 cm)

⊛

NJDEP requested surface soils collected in 2003 (actual data not available)

⊛

Soil samples, outside of remedial zone, collected in 2002 (0-15 cm)

○

Soil samples collected in June 2000 (0-5 cm)

★

1997-2011 OU1 Residential Soils (Properties not scheduled to be remediated)
- ⬢

2003 Interim Remedial Measures

⬢

Extrapolation using thiessen polygons of historic and current surface soil concentrations

⬢

Main Investigation Area

⬢

Optional Investigation Area

⬢

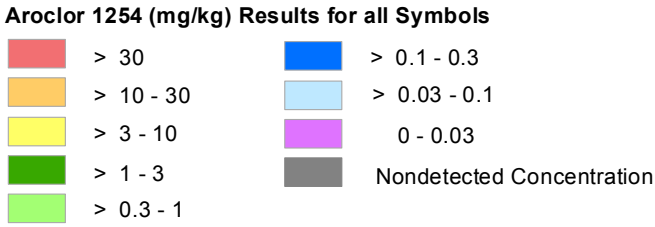
Bound Brook Centerline River Mile (RM)

⬢

Former CDE Facility

⬢

Woodbrook Road Dump Superfund Site



- Notes:
- Figure 5-13 shows Aroclor 1254 concentrations in surface soils and surface sediments, as reported from the various sampling programs. While presenting historic and current datasets together on one map can be beneficial for developing a conceptual site model, inconsistencies in the field sampling procedures and laboratory methods are acknowledged as limitations in the data presentation. A brief description of each sampling program is provided below.
 - Nondetected concentrations are plotted as zero or “gray.” The average field duplicate concentration was plotted. For duplicate pairs, which include detected and nondetected results, only the detected concentration was plotted.
 - Basemap Source: ESRI [Http://services.arcgisonline.com/ArcGIS/services](http://services.arcgisonline.com/ArcGIS/services)
- ⬢ = OU4 RI low resolution sediment cores were collected manually with a Lexan tube push-core from June to October 2011. Surface sediments (from the core tops) represent the top 0-15 cm, except when a geological stratification was present, which resulted in a depth adjustment. This field adjustment yielded surface sediment samples that represented one stratum with a consistent classification. (The smallest surface sediment interval was 8 cm, the largest interval was 30 cm, and the average surface sediment interval was 17 cm.) Samples were analyzed through the USEPA CLP Laboratory using USEPA Method 608 (GC/MS). Note that three additional surface sediment samples were collected with an Ekman dredge (0-15 cm) in May 2013 from the pond adjacent to Veterans Memorial Park and analyzed at Test American (Burlington) using Method SW-846 8082.
- ⬢ = Historical surface sediment concentrations represent a depth of 0-15 cm. Sediment cores were manually advanced and processed in 2007 and 2009. Samples were analyzed by Method SW-846 8082 (GC/ECD). Data source: TRC 2007 and TRC 2009.
- ⊙ = Historical Spring Lake/Cedar Brook sediment concentrations represent a depth of 0-15 cm. Samples were manually collected by the NJDEP in 1999 using a decontaminated ponar dredge or stainless steel trowel. Samples represent a composite of multiple grabs. Samples were analyzed through the USEPA CLP laboratory program for PCB Aroclors. Data source: NJDEP 1999.
- ⬢ = Historical Cedar Brook surface sediment concentrations represent a depth of 0 to 5 cm. Samples were manually collected by the USEPA in June 1999 using dedicated plastic spoons and spatulas (material placed directly into sampling jar). Samples were analyzed by Southwest Labs of Oklahoma (USEPA CLP Laboratory) using USEPA Method OLM03.2 (modified for PCB Aroclors by GC/ECD). Data source: Weston 2000.
- △ = OU4 RI soil borings were collected by direct push with a GeoProbe or manually with a PVC GeoProbe liner, Lexan tube, or soil auger from May to September 2011. Samples were analyzed through the USEPA CLP Laboratory using USEPA Method 608 (GC/MS). Note that additional surface soil samples were collected with a soil auger (0-15 cm) in May 2013 from the floodplains adjacent to Veterans Memorial Park and analyzed at Test American (Burlington) using Method SW-846 8082 (GC/ECD).
- ⊛ = NJDEP requested surface soils samples along the fence line in Veterans Memorial Park in 2003. Data are not available, but PMK 2004 Interim Remedial Action Report states that PCB Aroclors were not detected or ranged from 0.056 mg/kg to 0.33 mg/kg; only Aroclor 1254 was detected.
- ⊛ = Historical surface soil concentrations represent a depth of 0-15 cm. Samples were manually collected in August 2002 from areas in Veterans Memorial Park that were outside the Interim Remedial Action. Samples were analyzed by ChemTech laboratory using Method SW-846 8082. Data source: PMK 2002.
- = Historical surface soil concentrations represent a depth of 0-5 cm. Samples were manually collected with a soil auger in June 2000 from residential properties and right-of-way zones as part of the CDE Operable Unit 01 RI field program, and they were analyzed through the USEPA CLP laboratory program for PCB Aroclors. Data source: Foster Wheeler 2001.
- ★ = Historical and current surface soils samples (1997 to 2011) from OU1 residential properties and Kenneth Avenue right-of-way zones that are not scheduled to be remediated and are located in the OU4 Study Area.
- ⬢ = Surface soil Aroclor 1254 concentrations on the floodplains at the confluence of Bound Brook and Cedar Brook were extrapolated using thiessen polygons. Data incorporated into the polygons include: OU4 RI soil augers samples, OU4 RI soil borings, USEPA 1999 surface soil grab samples (Weston 2000), and 2002 surface soil grab samples (PMK 2002). Only soil samples that were located outside the excavation zone are included in the polygons.

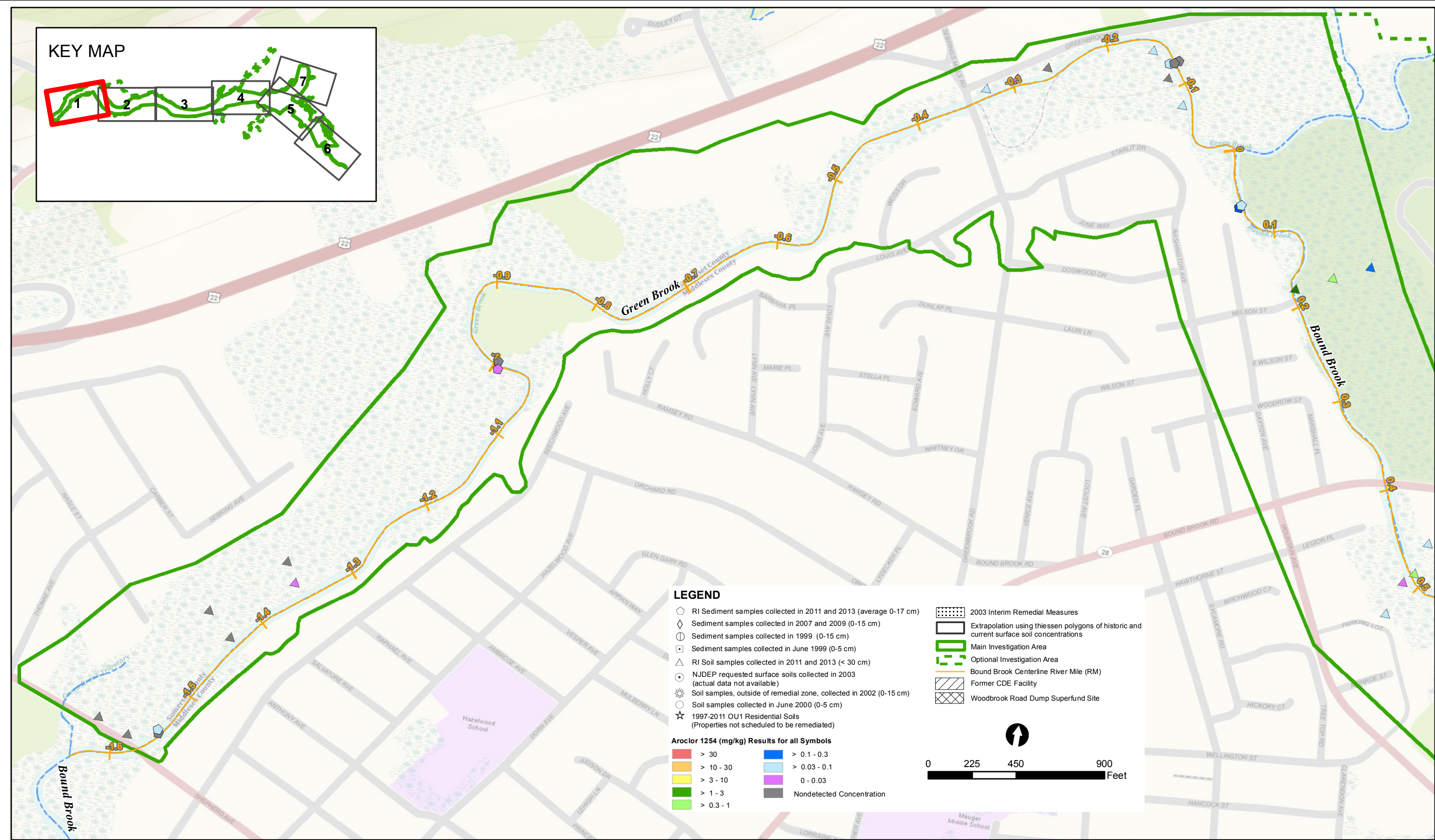


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Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area
Bound Brook OU4 RI/FS

2013
Figure 5-13
KEY MAP

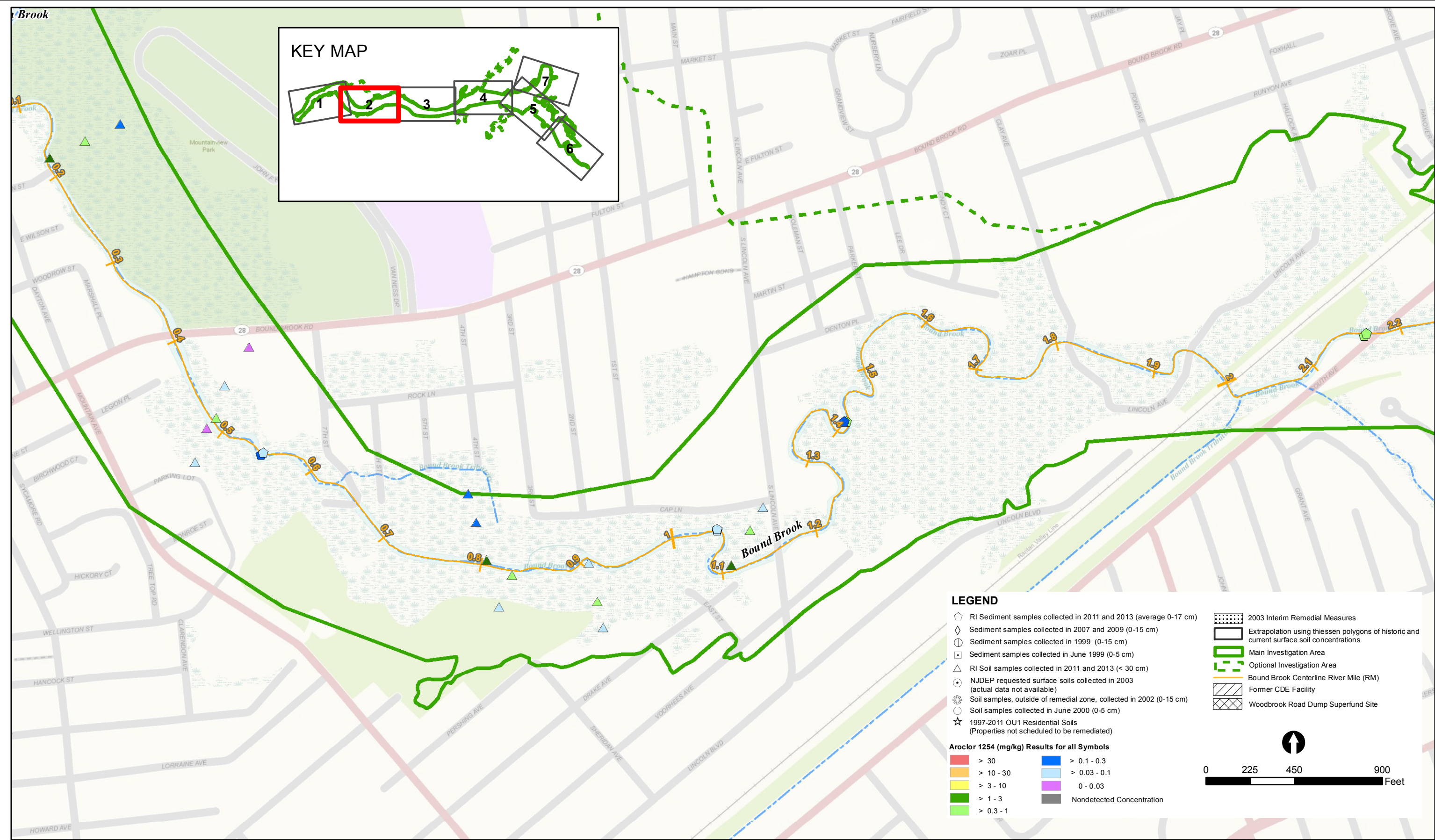


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**Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area**
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 1 of 7

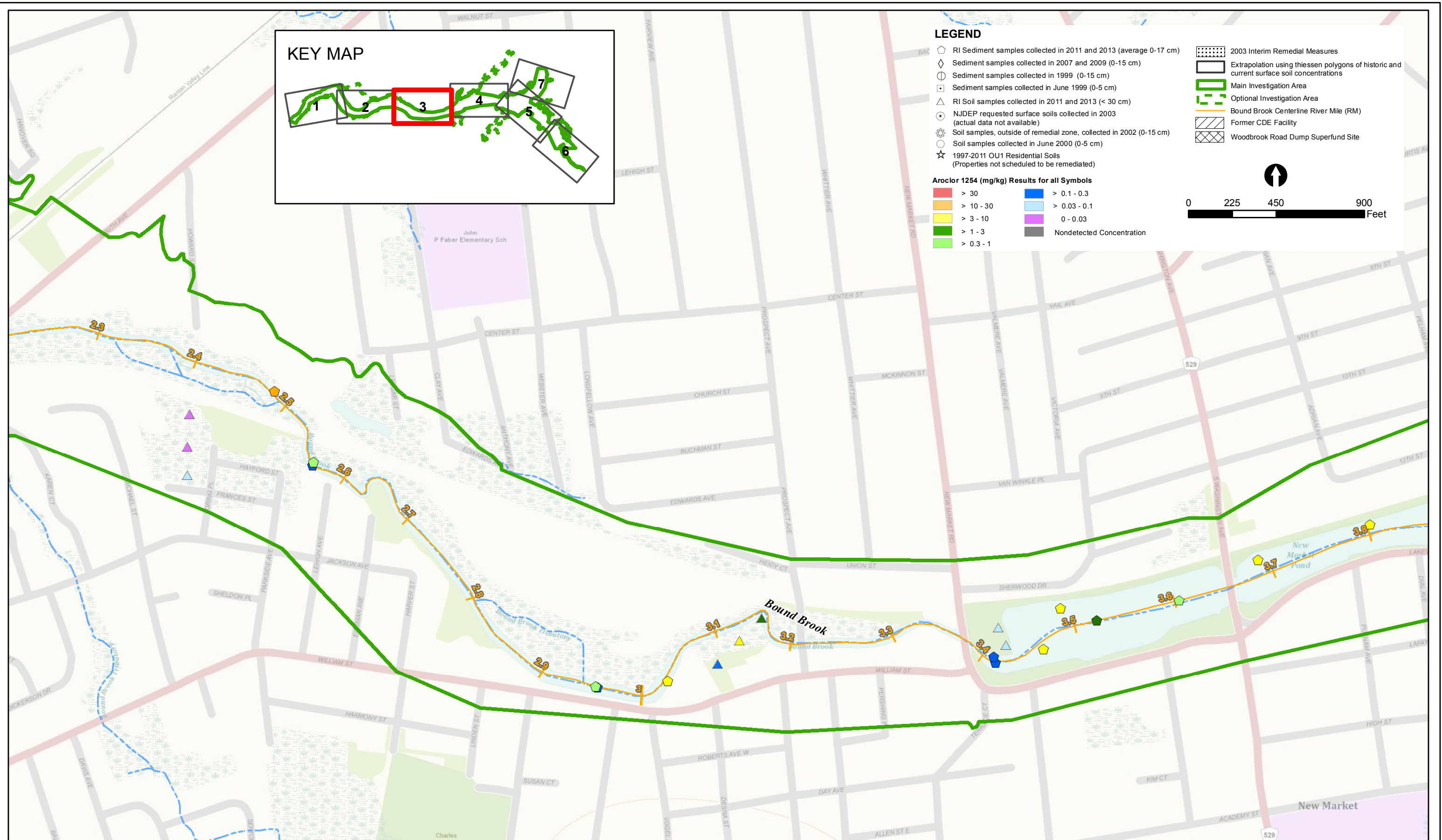


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**Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area**
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 2 of 7

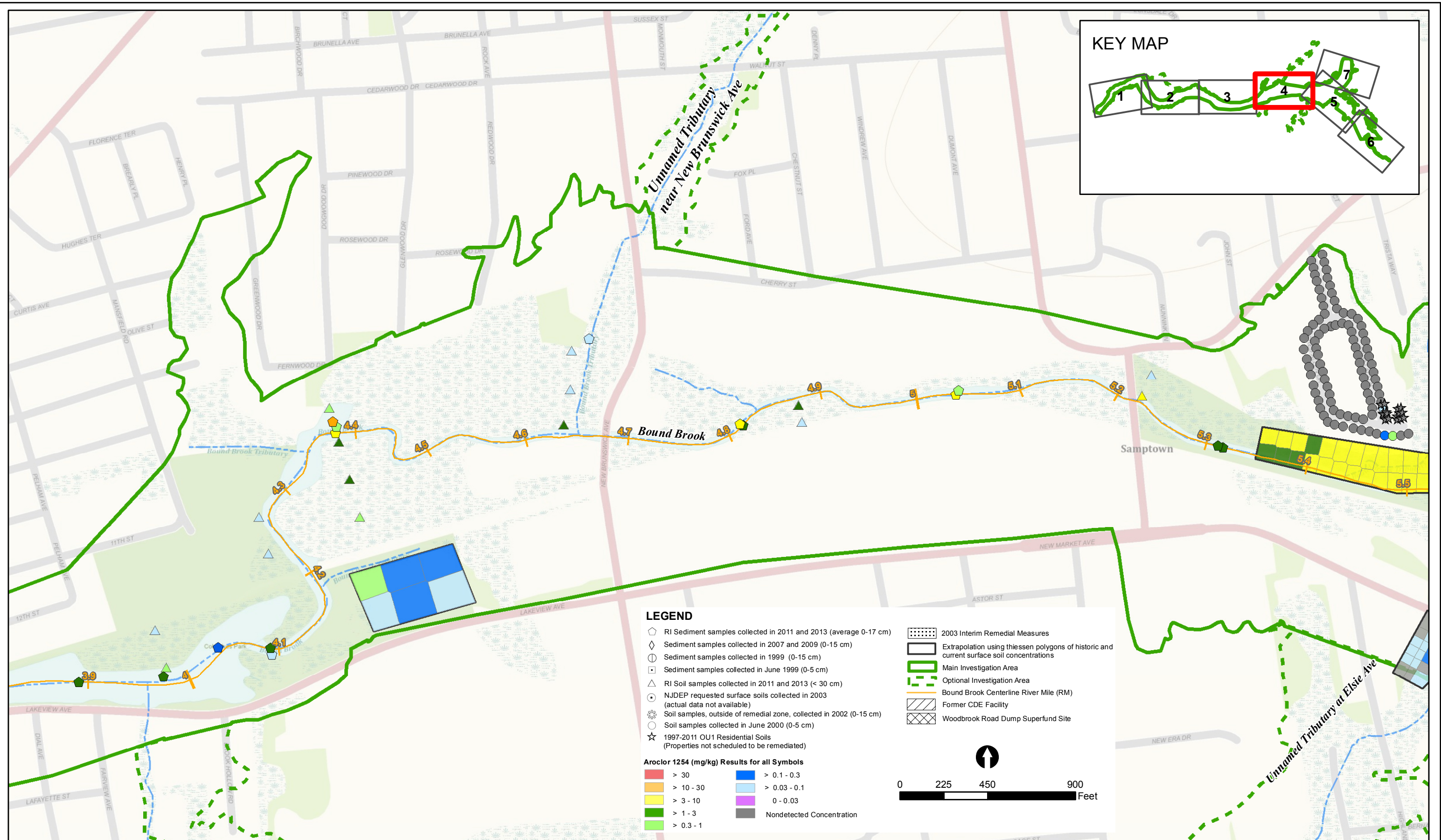


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Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 3 of 7



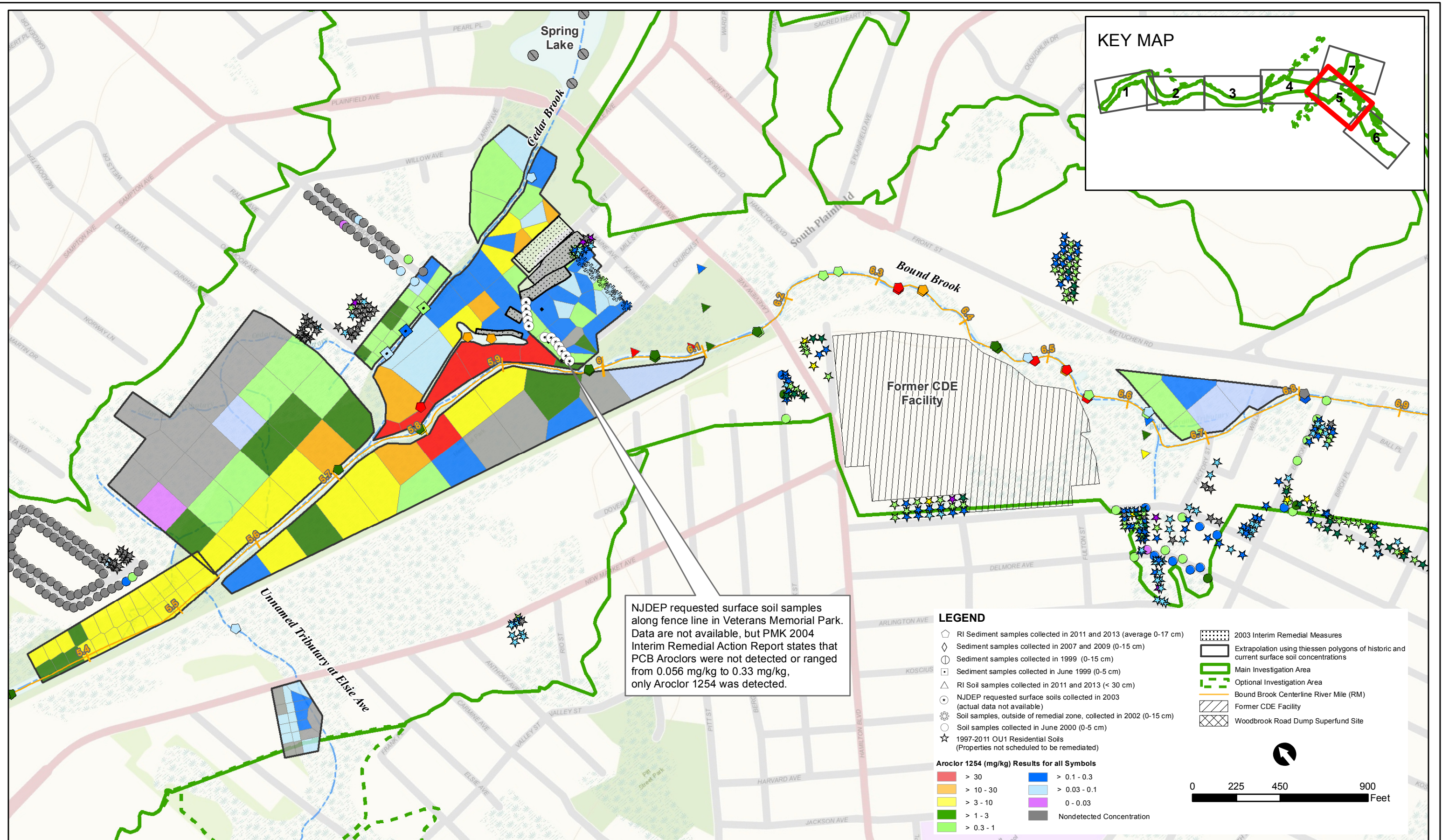
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Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area
Bound Brook OU4 RI/FS

2013

Figure 5-13
Sheet 4 of 7

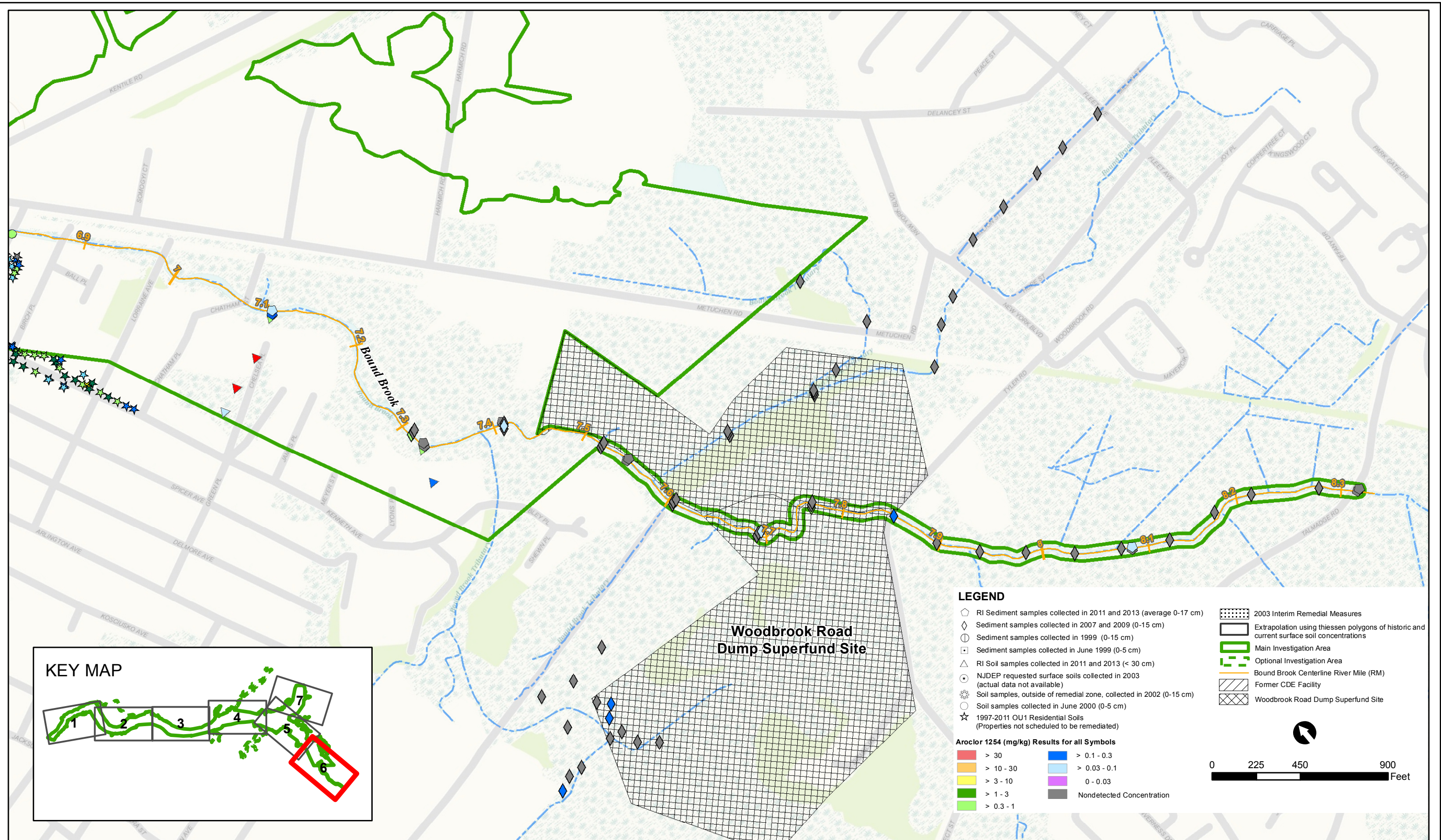


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Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 5 of 7

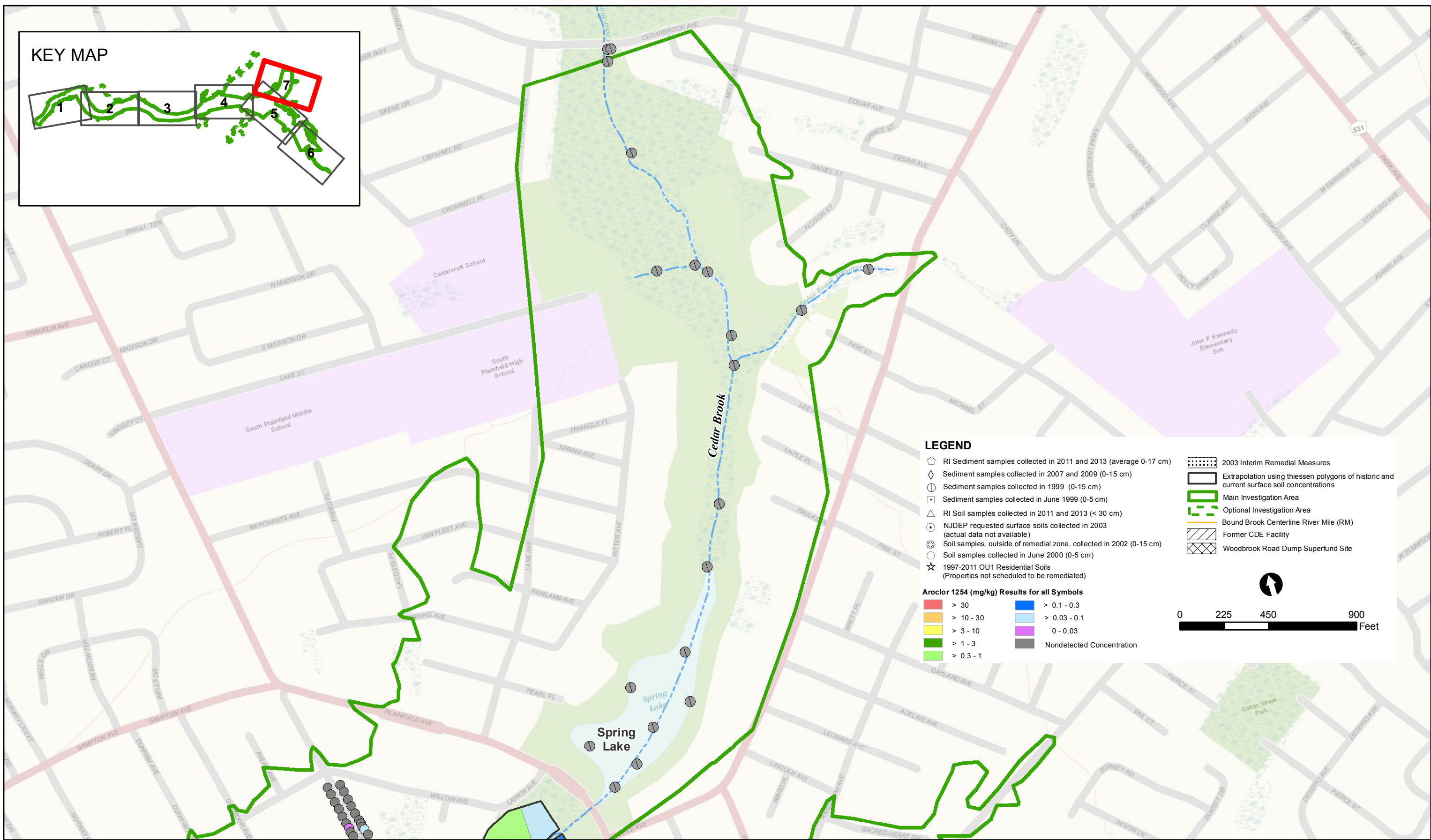


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Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 6 of 7

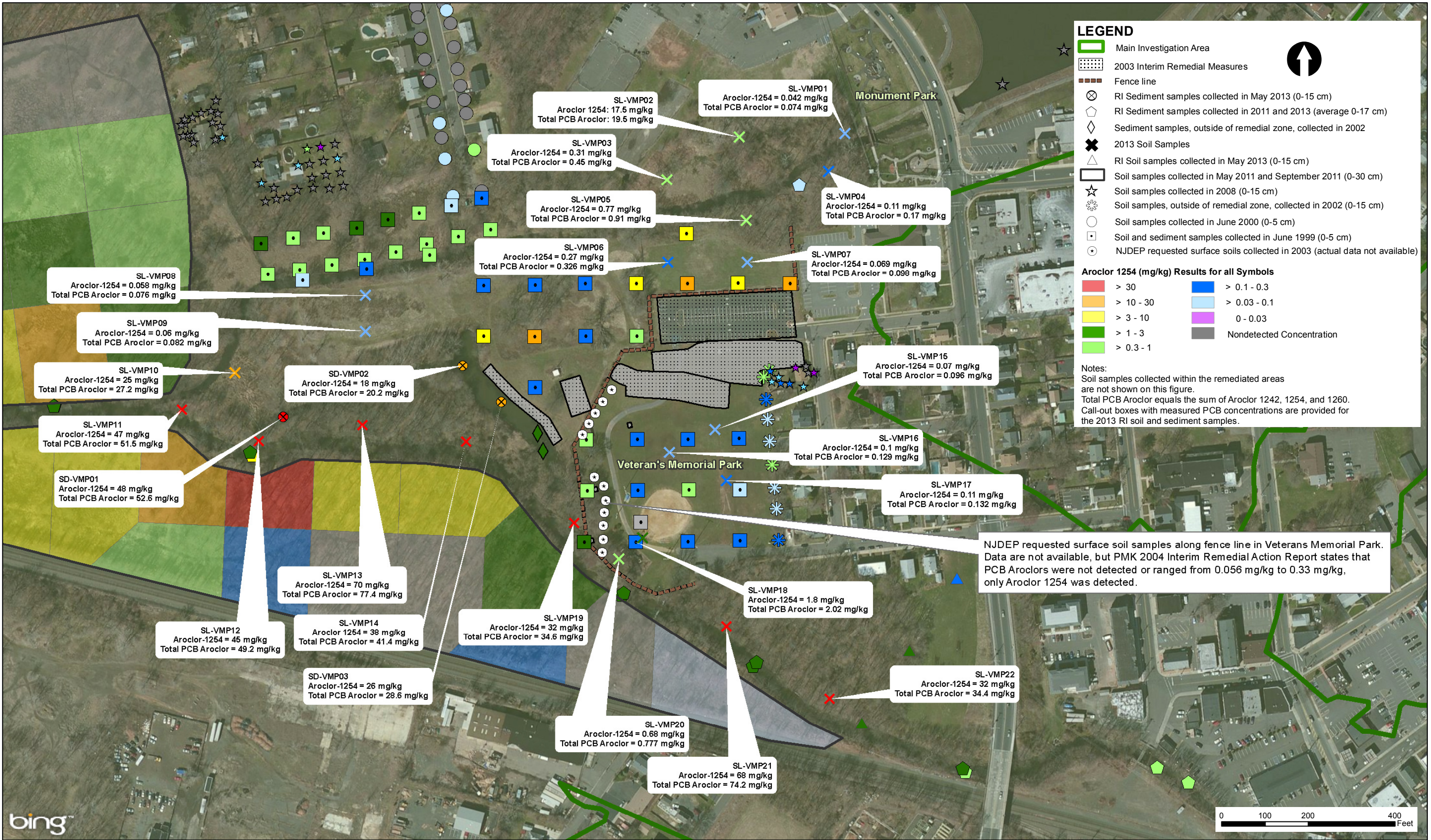


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**Surficial Soil and Sediment Aroclor 1254 Concentrations
in and near OU4 Study Area**
Bound Brook OU4 RI/FS

2013
Figure 5-13
Sheet 7 of 7



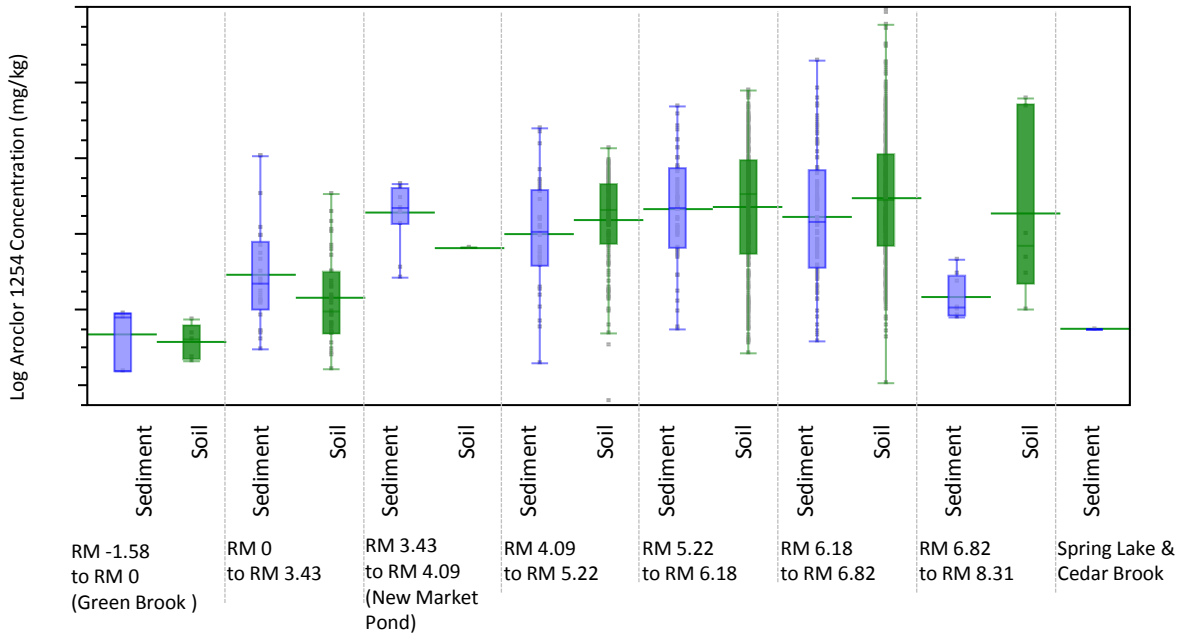
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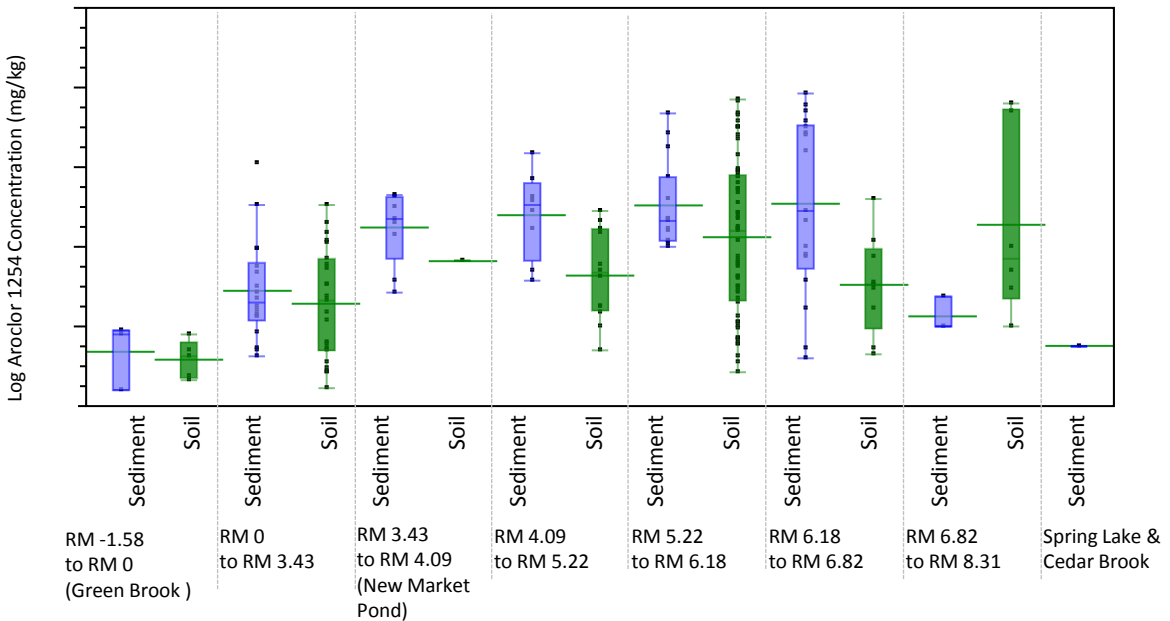
Superfund Soil and Sediment Aroclor 1254 Concentrations
in and near Veterans Memorial Park
Bound Brook OU4 RI/FS

2013
Figure 5-14

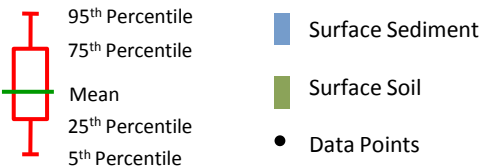
Aroclor 1254 Concentrations from 1997-2013 Sampling Events



Aroclor 1254 Concentrations from 2011 - 2013 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG., 2013 LBG.



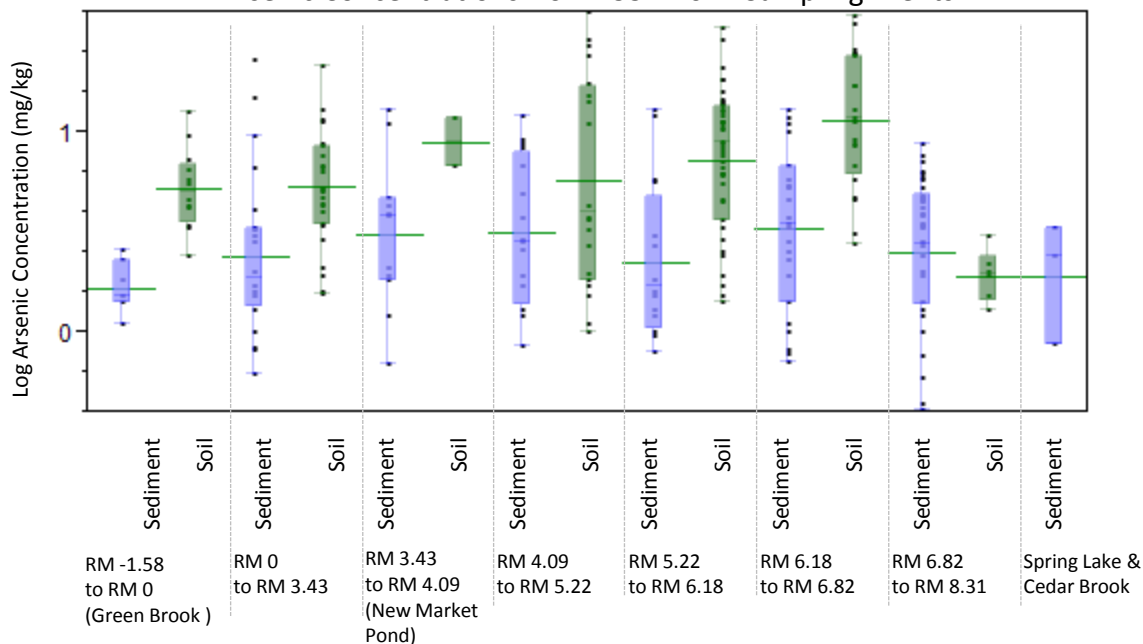
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Distribution of Aroclor 1254 Concentration in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

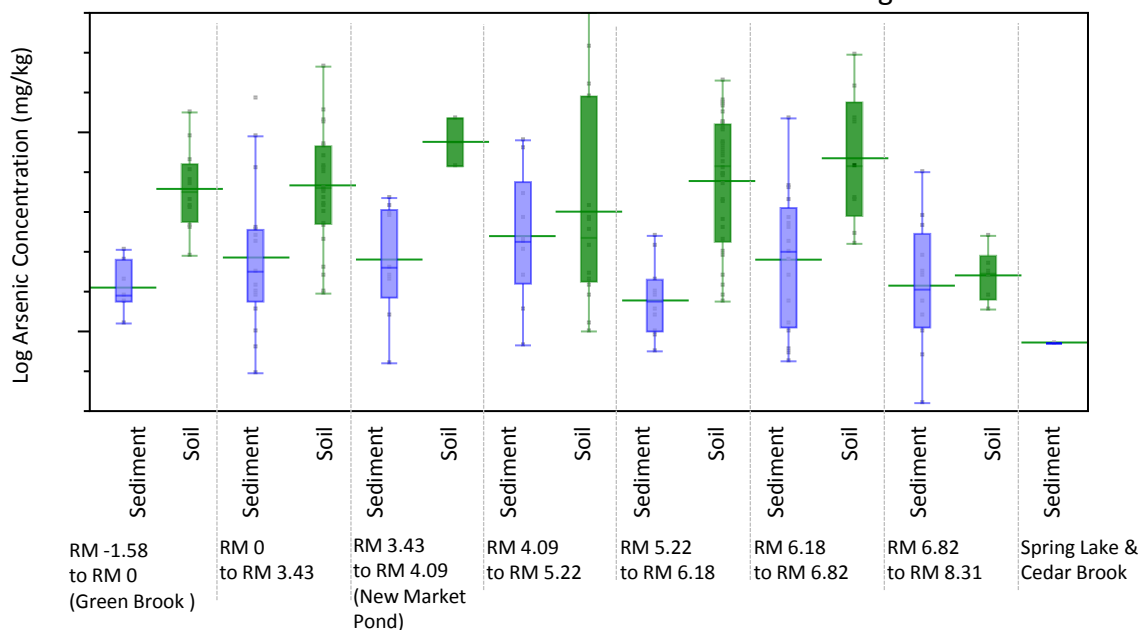
2013

FIGURE 5-15a

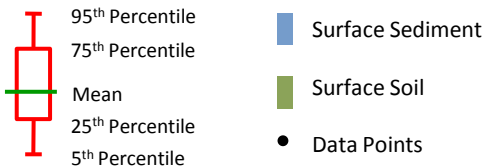
Arsenic Concentrations from 1997-2011 Sampling Events



Arsenic Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



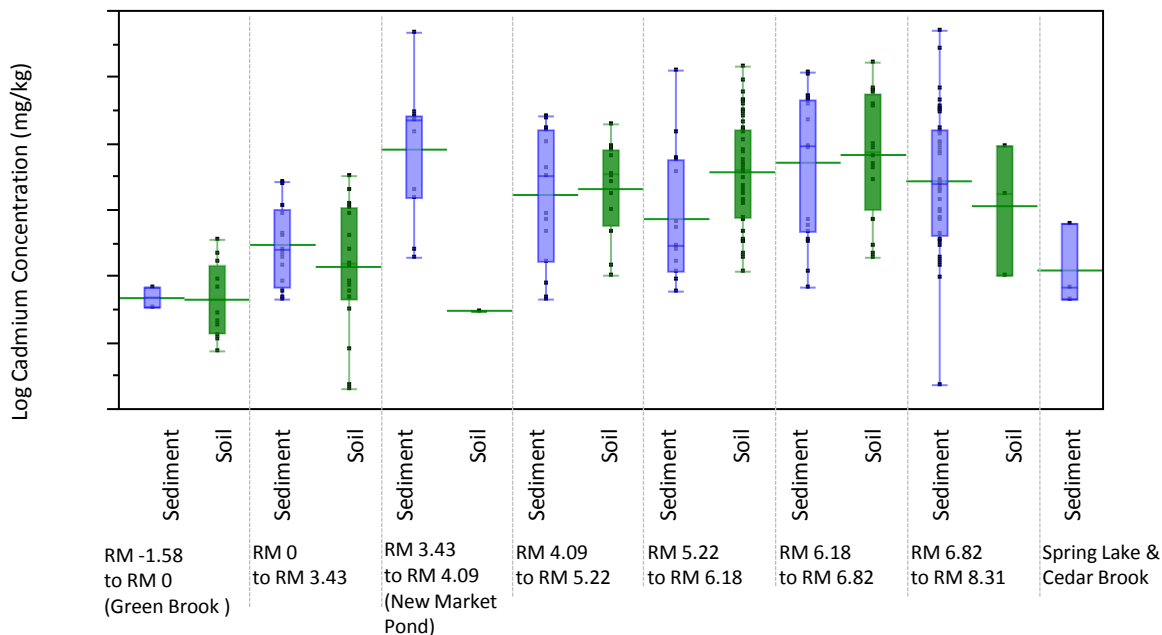
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Distribution of Arsenic Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

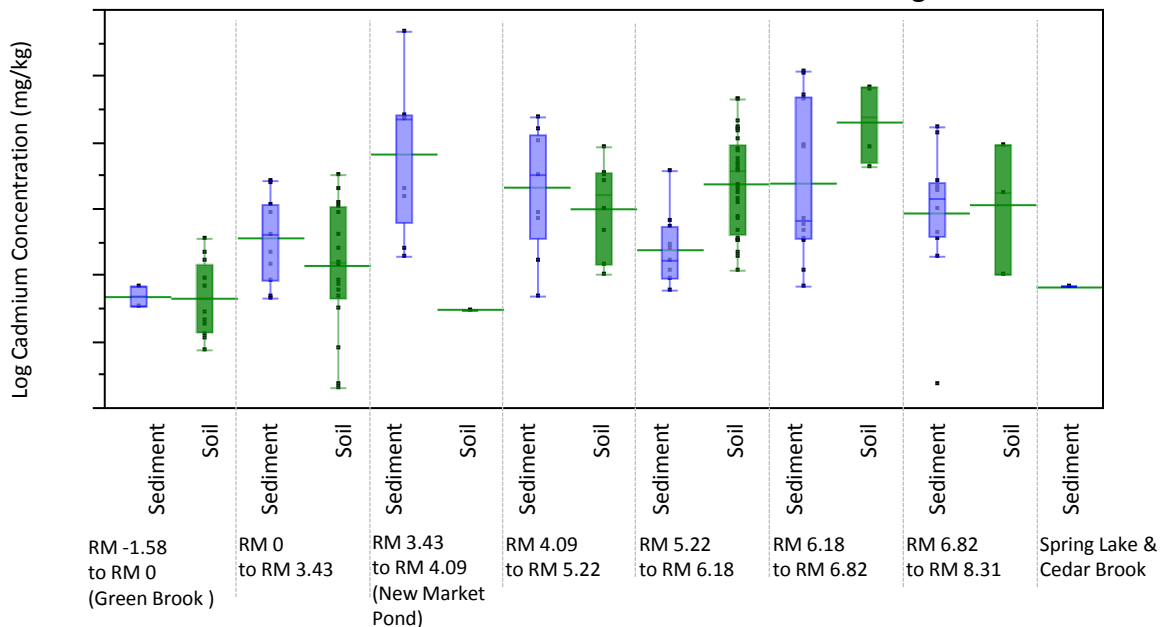
2013

FIGURE 5-15b

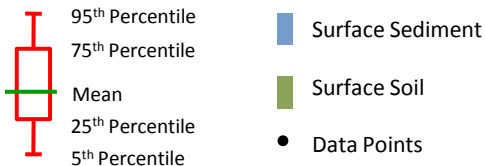
Cadmium Concentrations from 1997-2011 Sampling Events



Cadmium Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



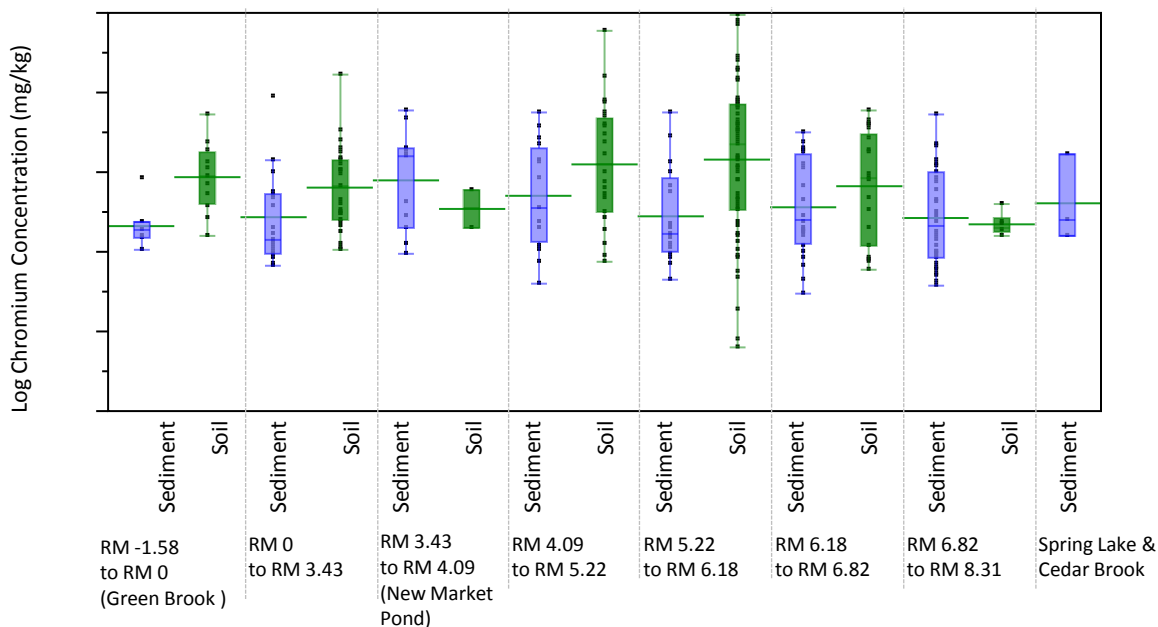
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Distribution of Cadmium Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

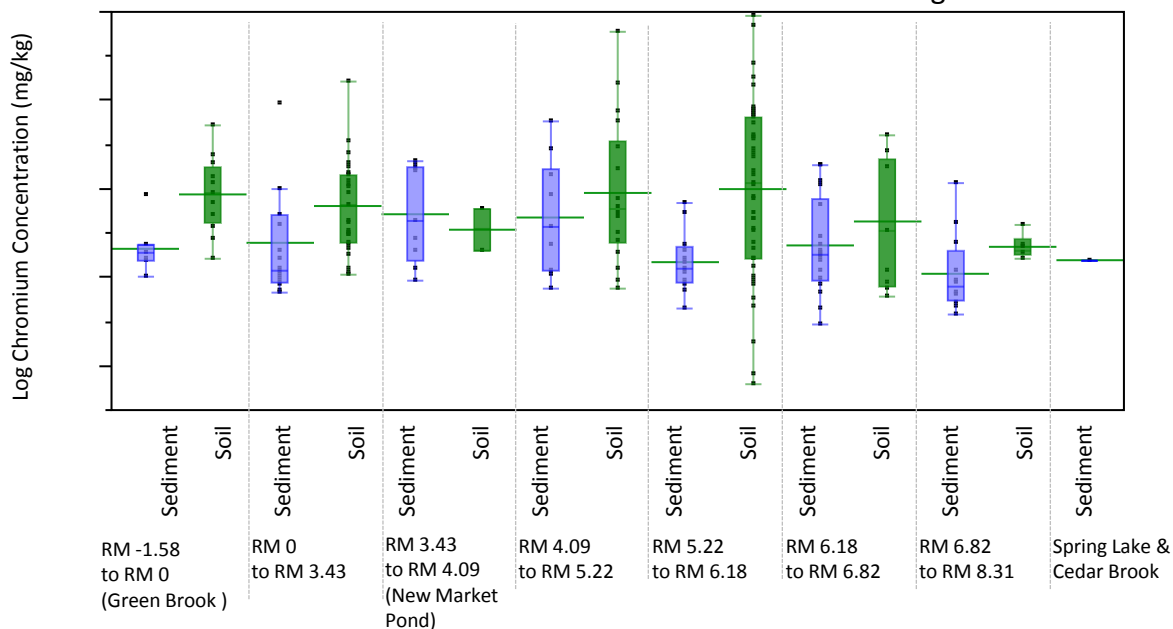
2013

FIGURE 5-15c

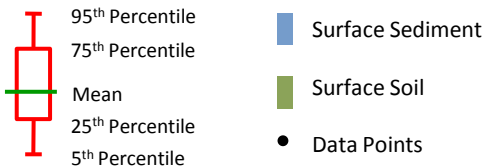
Chromium Concentrations from 1997-2011 Sampling Events



Chromium Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



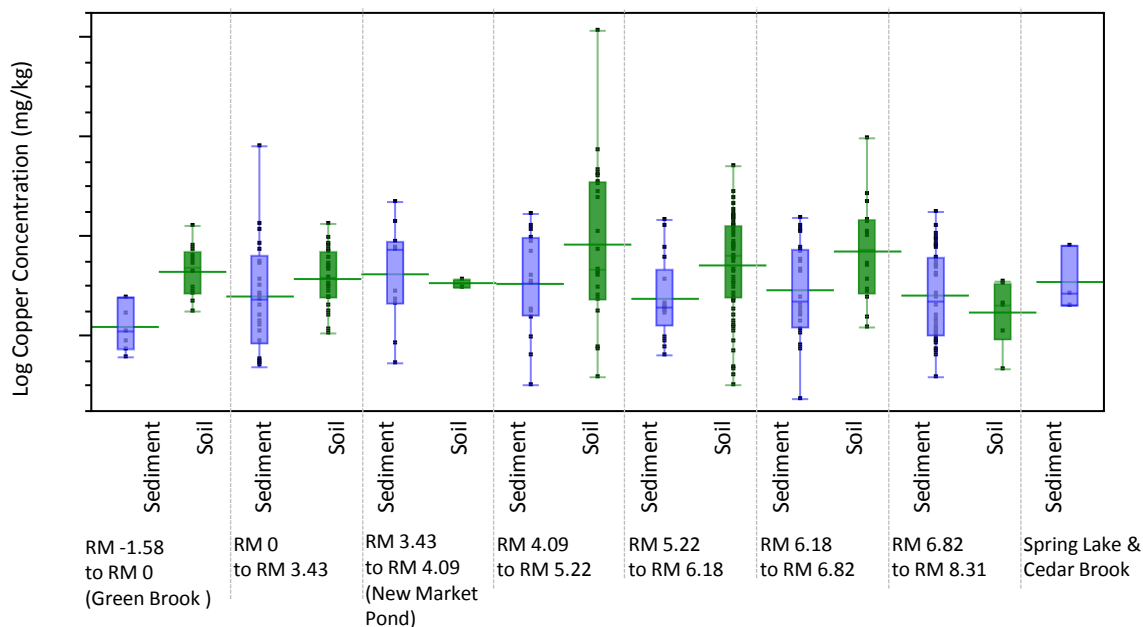
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Distribution of Chromium Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

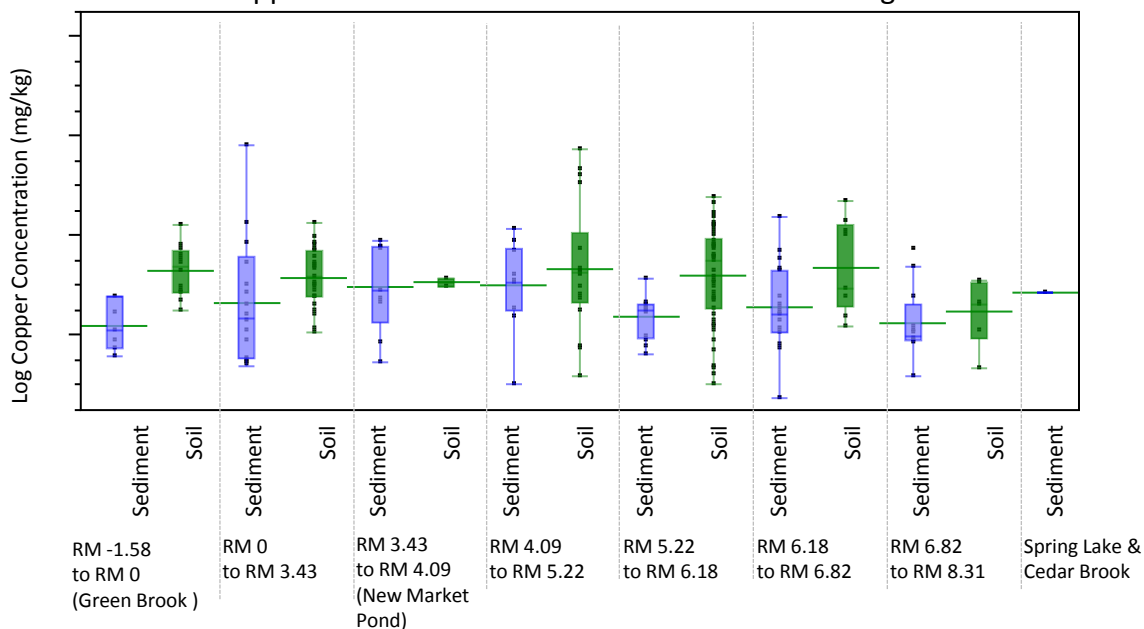
2013

FIGURE 5-15d

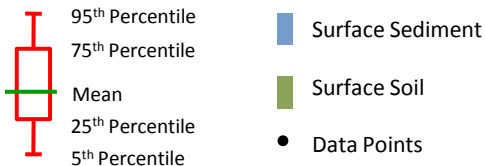
Copper Concentrations from 1997-2011 Sampling Events



Copper Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



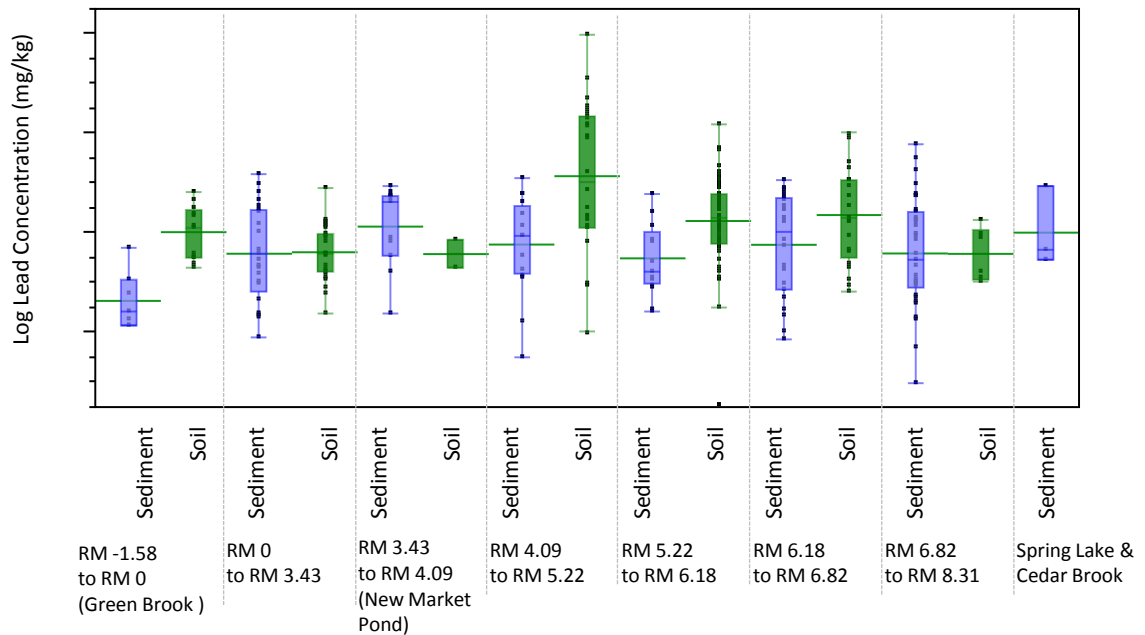
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Distribution of Copper Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

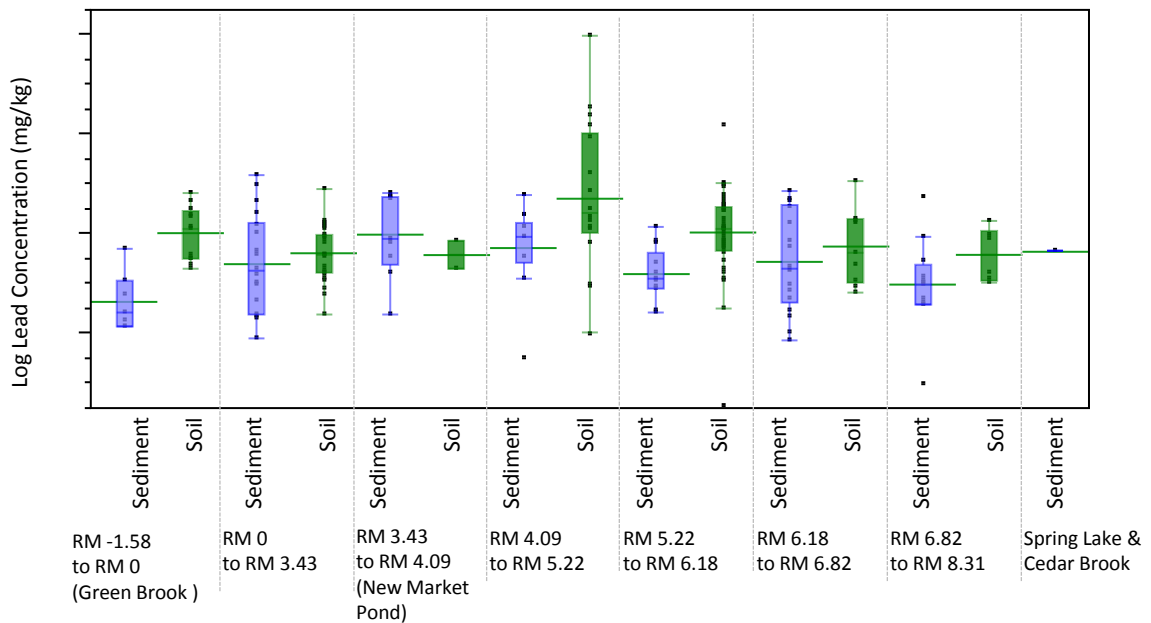
2013

FIGURE 5-15e

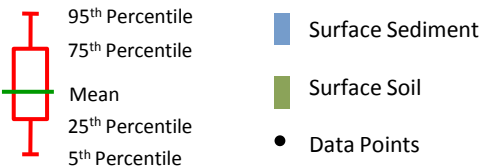
Lead Concentrations from 1997-2011 Sampling Events



Lead Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 007/2009 TRC, 2007-08 USEPA, 2011 LBG.



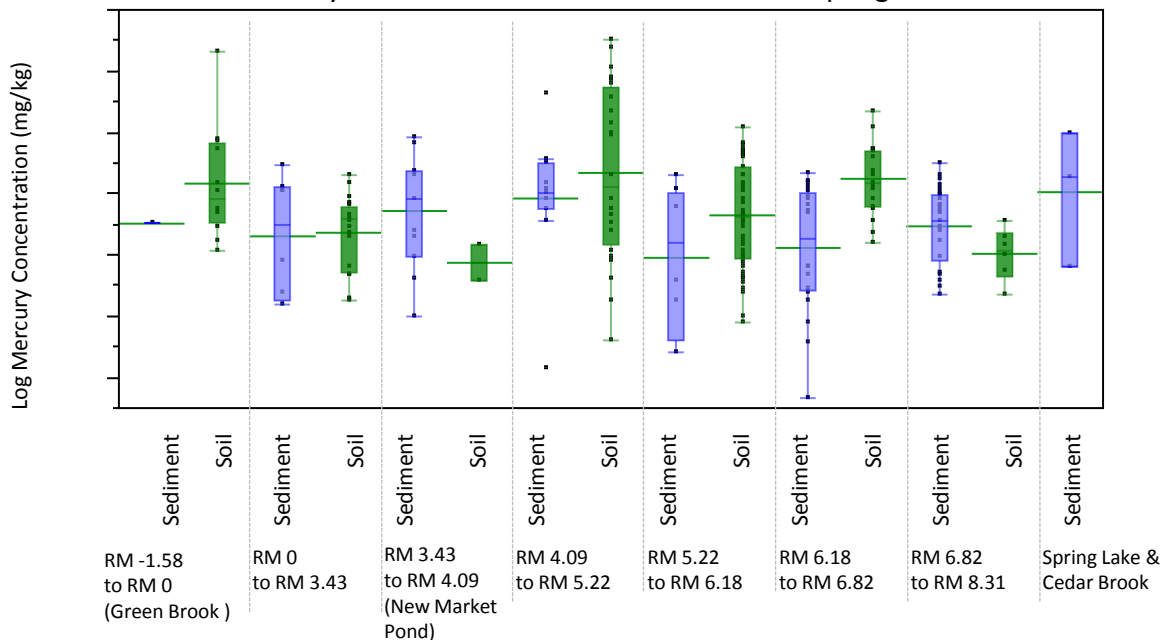
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Distribution of Lead Concentrations in Surface
Sediments and Surface Soil in OU4 Bound
Brook Study Area
Bound Brook OU4 RI/FS

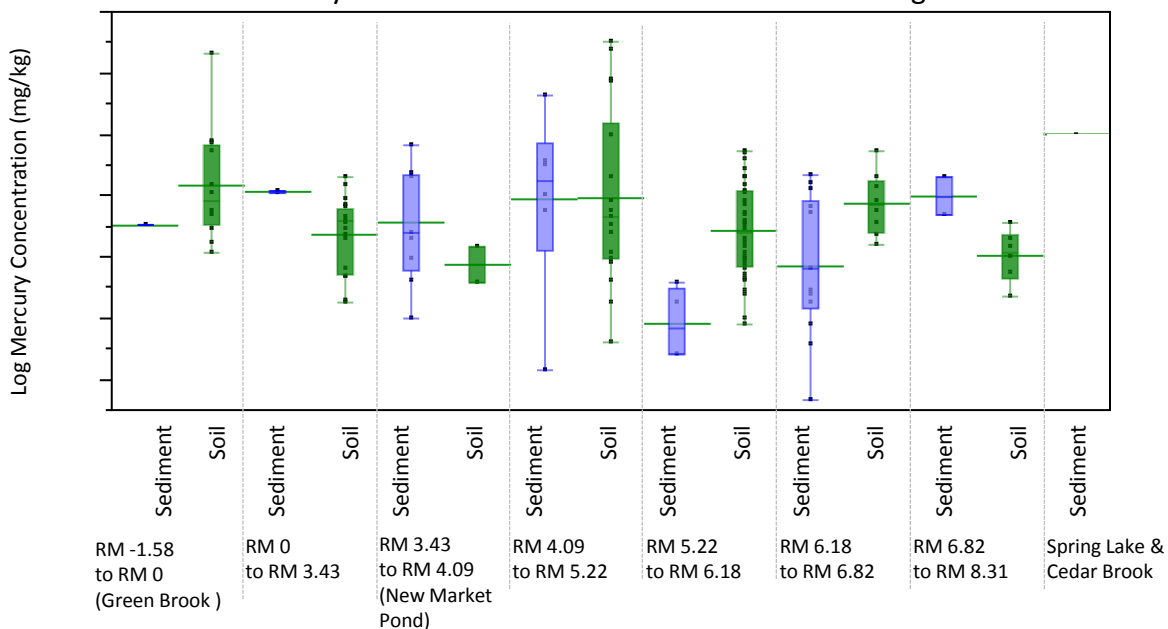
2013

FIGURE 5-15f

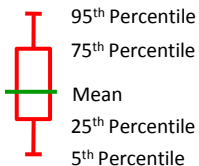
Mercury Concentrations from 1997-2011 Sampling Events



Mercury Concentrations from 2011 Remedial Investigation



LEGEND:



Surface Sediment
Surface Soil
Data Points

NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. The sediment sample collected in 2011 in Spring Lake is non-detect for mercury.
4. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



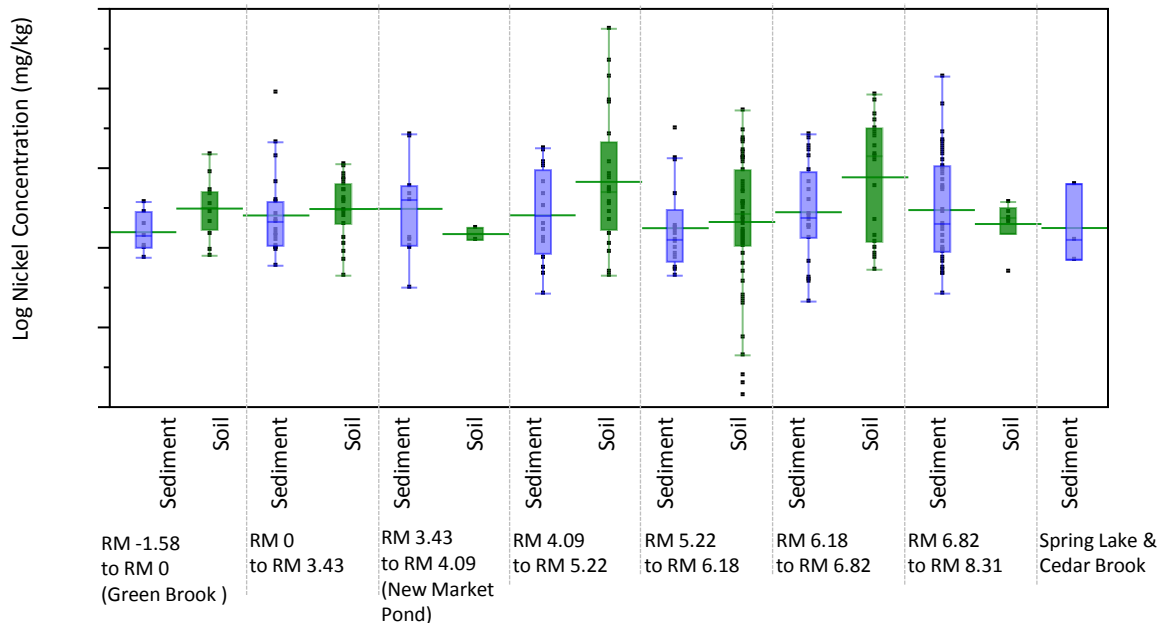
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Distribution of Mercury Concentration in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

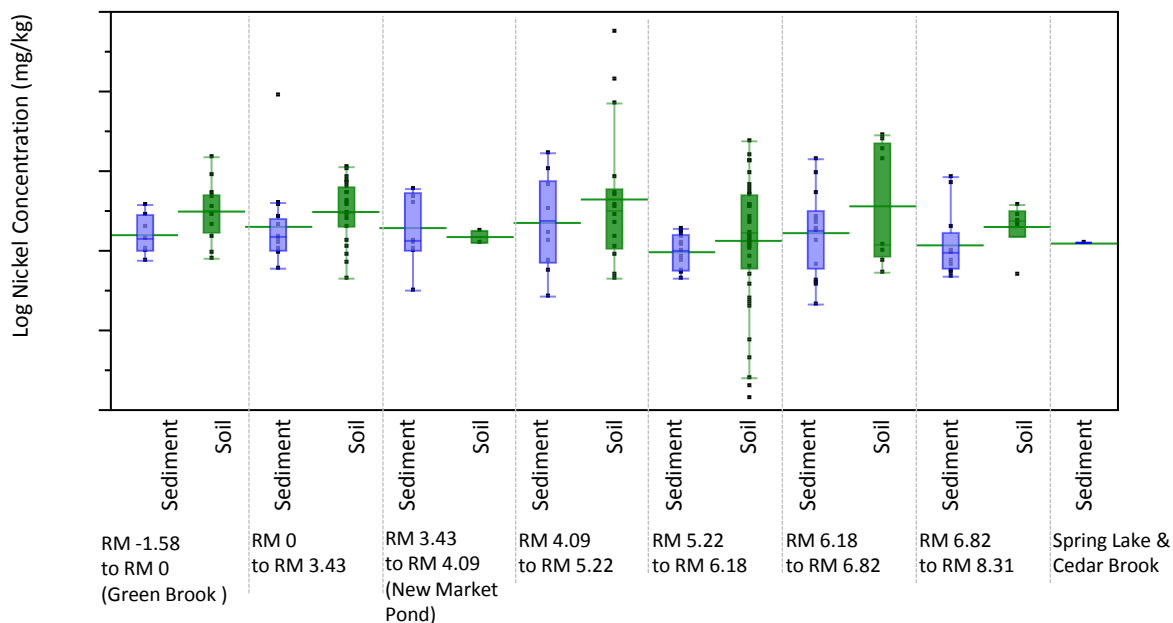
2013

FIGURE 5-15g

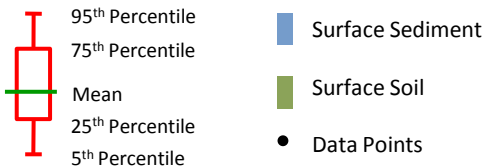
Nickel Concentrations from 1997-2011 Sampling Events



Nickel Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



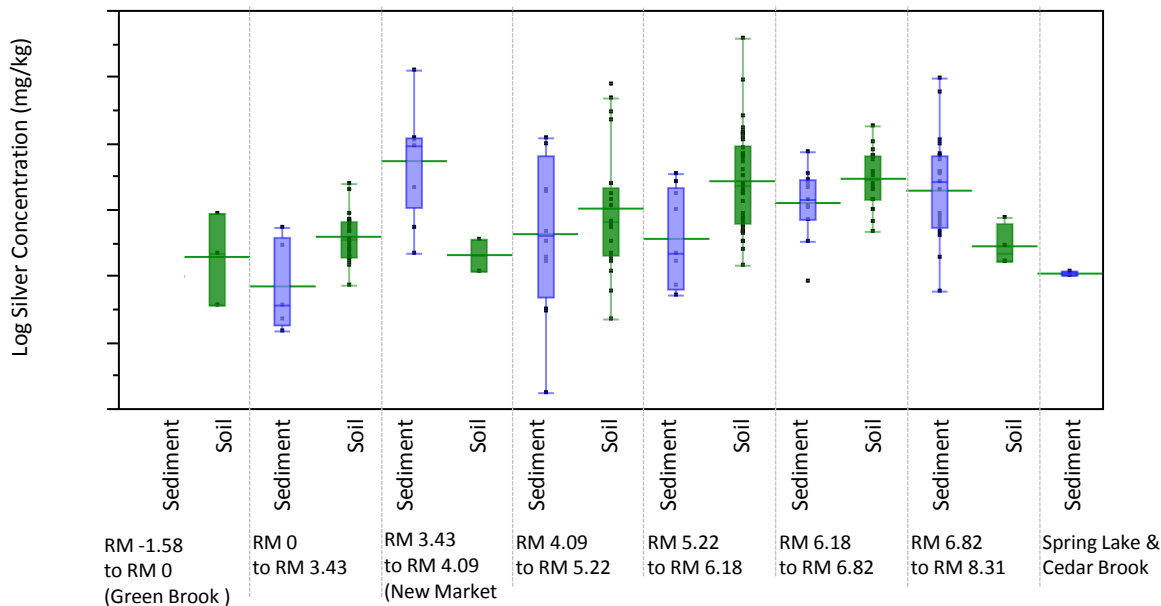
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Distribution of Nickel Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

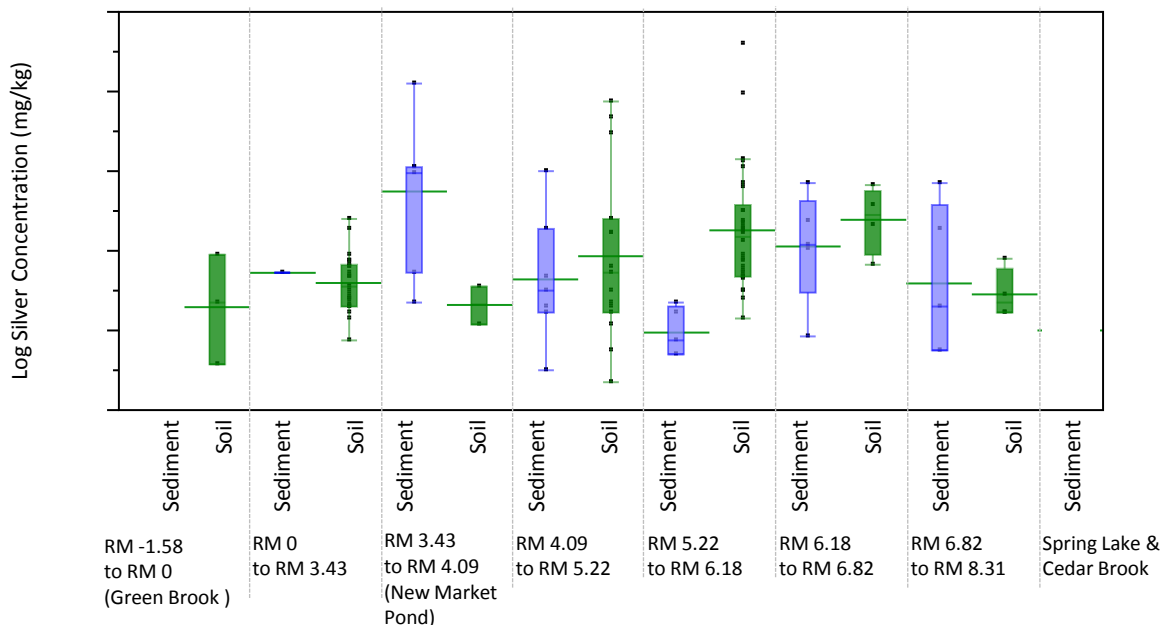
2013

FIGURE 5-15h

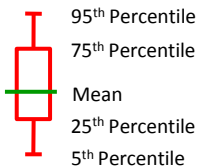
Silver Concentrations from 1997-2011 Sampling Events



Silver Concentrations from 2011 Remedial Investigation



LEGEND:



- Surface Sediment
- Surface Soil
- Data Points

NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Sediment samples collected in RM -1.58 to RM 0 (Green Brook) are all non-detect for silver.
4. The sediment sample collected in 2011 in Spring Lake was non-detect.
5. Data sources: 1998 Weston, 1999 EPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



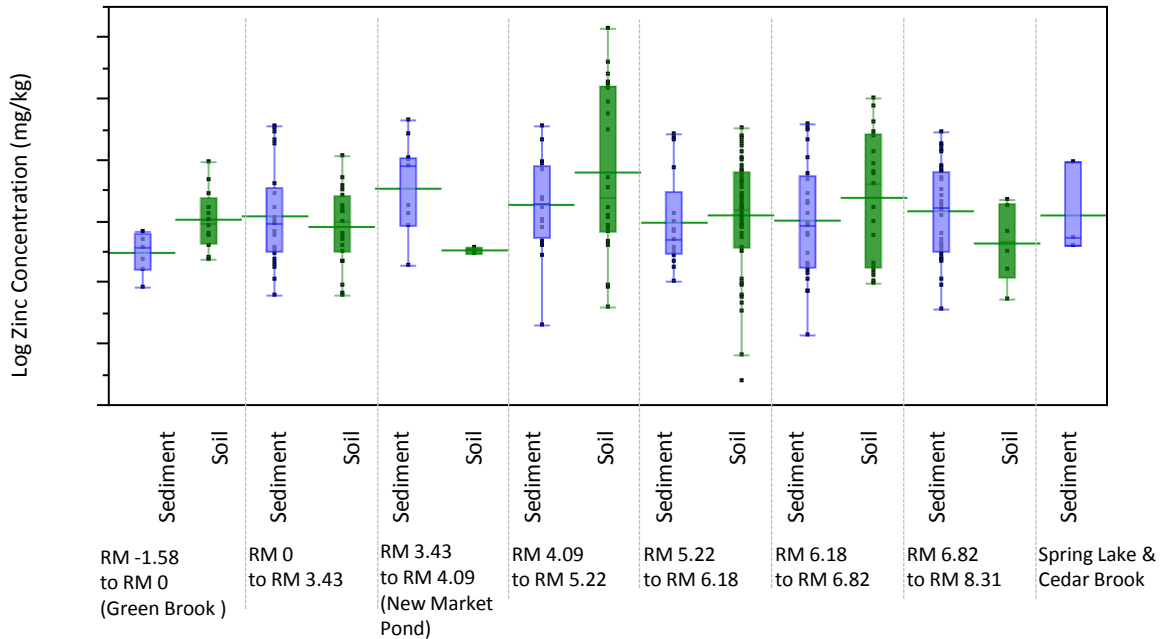
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Distribution of Silver Concentrations in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

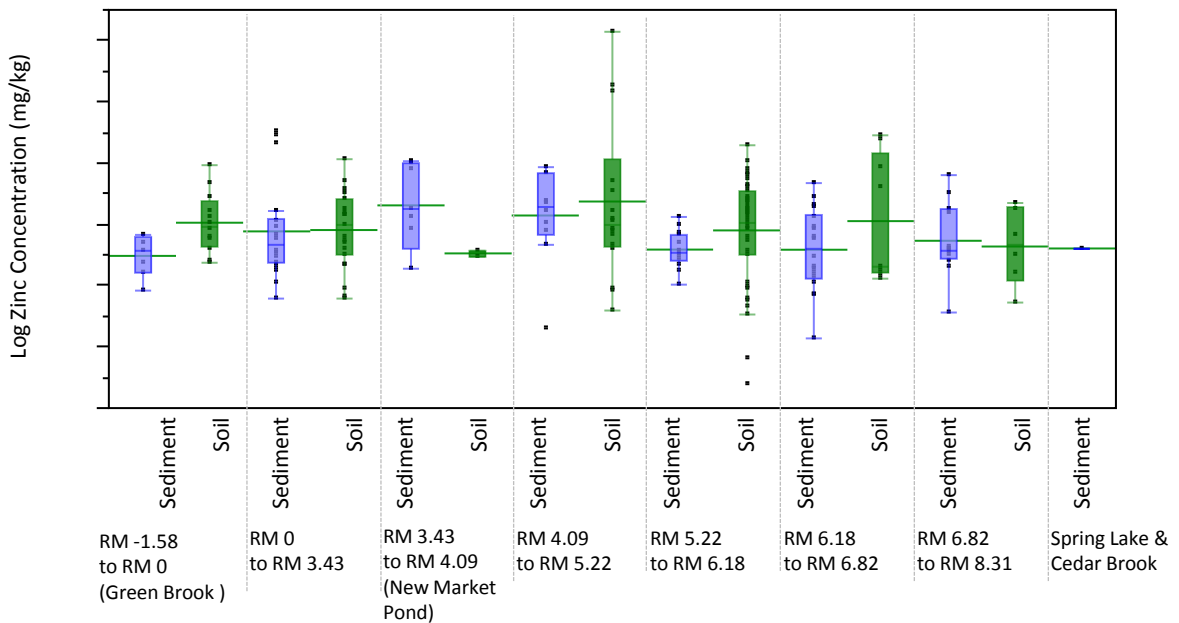
2013

FIGURE 5-15i

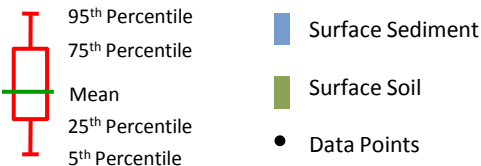
Zinc Concentrations from 1997-2011 Sampling Events



Zinc Concentrations from 2011 Remedial Investigation



LEGEND:



NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



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Distribution of Zinc Concentrations in Surface
Sediments and Surface Soil in Old Bound
Brook Study Area
Bound Brook OU4 RI/FS

2013

FIGURE 5-15j

Log Benzo (a)pyrene Concentration (mg/kg)

Sediment Soil Sediment Soil Sediment Soil Sediment Soil Sediment Soil Sediment Soil Sediment

RM -1.58 to RM 0 (Green Brook) RM 0 to RM 3.43 RM 3.43 to RM 4.09 (New Market Pond) RM 4.09 to RM 5.22 RM 5.22 to RM 6.18 RM 6.18 to RM 6.82 RM 6.82 to RM 8.31 Spring Lake & Cedar Brook

95th Percentile
75th Percentile
Mean
25th Percentile
5th Percentile

- Data Points

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



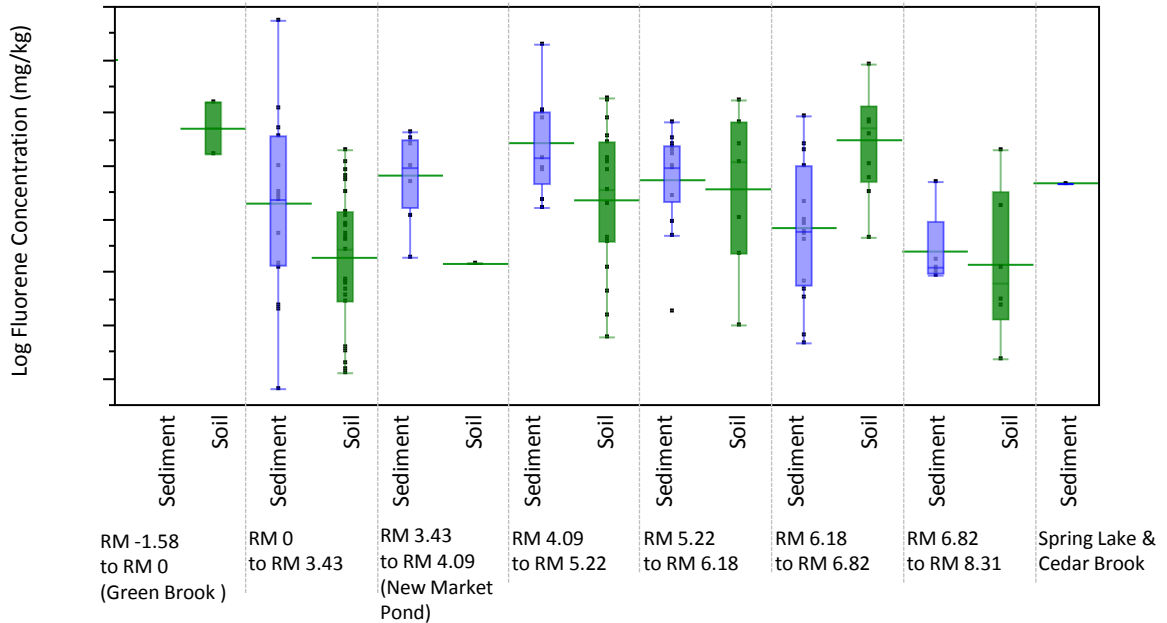
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Distribution of Benzo(a)pyrene Concentrations in Surface Sediments and Surface Soils in OU4 Bound Brook Study Area

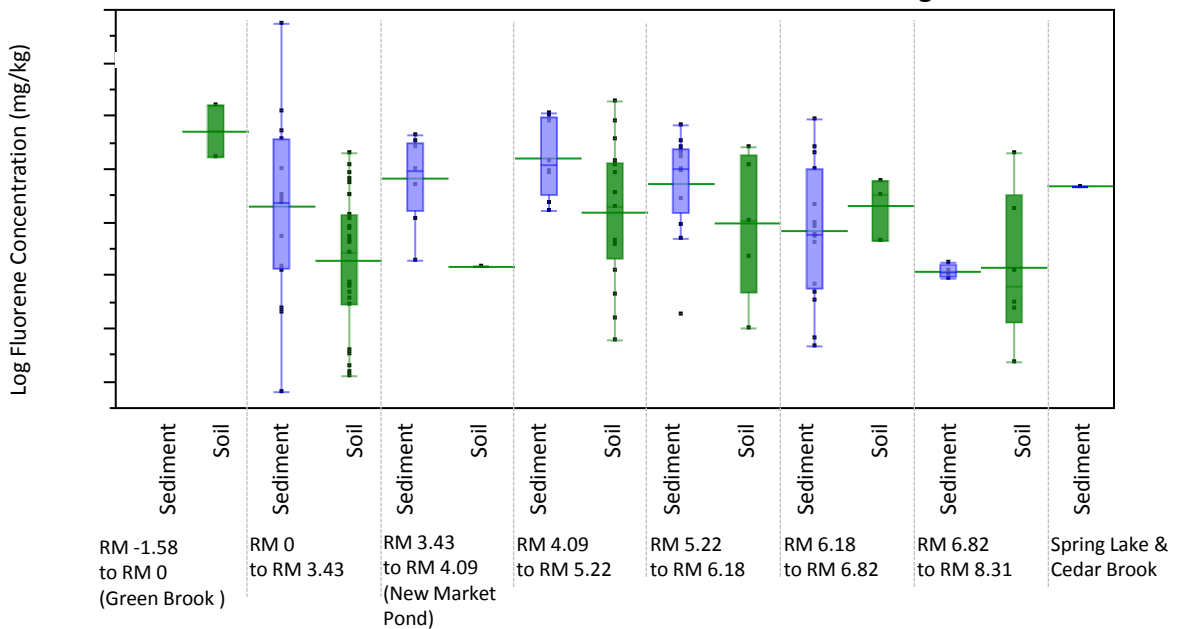
2013

FIGURE 5-15k

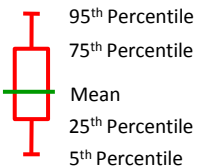
Fluorene Concentrations from 1997-2011 Sampling Events



Fluorene Concentrations from 2011 Remedial Investigation



LEGEND:



Surface Sediment

Surface Soil

• Data Points

NOTES:

1. Detected surface soil and sediment samples are presented.
2. For samples with field duplicates, the average concentration is presented.
3. Sediment samples collected in RM -1.58 to RM 0 (Green Brook) are all non-detects for Fluorene.
4. Data sources: 1998 Weston, 1999 USEPA, 1999 NJDEP, 2000 Weston, 2001 Foster Wheeler, 2002 PMK, 2007/2009 TRC, 2007-08 USEPA, 2011 LBG.



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Distribution of Fluorene Concentration in
Surface Sediments and Surface Soils in OU4
Bound Brook Study Area
Bound Brook OU4 RI/FS

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FIGURE 5-15I